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BULLETINS

OF THE

State Geological and Natural History Survey of Connecticut

1. First Biennial Report of the Commissioners of the State Geological and Natural History Survey, 1903-1904.

2. A Preliminary Report on the Protozoa of the Fresh Waters of Connecticut: by Herbert William Conn. (Out of print. To be obtained only in Vol. I, containing Bulletins 1-5. Price $1.50, postpaid.)

3. Preliminary Report on the Hymeniales of Connecticut: by [illegible] Albert White.

4. The Clays and Clay Industries of Connecticut: by Gerald Francis Loughlin.

5. The Ustilagineæ, or Smuts, of Connecticut: by George Perkins Clinton.

6. Manual of the Geology of Connecticut: by William North Rice and Herbert Ernest Gregory. (Out of print. To be obtained only in Vol. II, containing Bulletins 6-12. Price $2.45, postpaid.)

7. Preliminary Geological Map of Connecticut: by Herbert Ernest Gregory and Henry Hollister Robinson.

8. Bibliography of Connecticut Geology: by Herbert Ernest Gr[illegible]

9. [illegible]cond Biennial Report of the Commissioners of the State Geological and Natural History Survey, 1905-1906.

10. A Preliminary Report on the Algæ of the Fresh Waters of Connecticut: by Herbert William Conn and Lucia Washburn (Hazen) Webster.

11. The Bryophytes of Connecticut: by Alexander William Evans and George Elwood Nichols.

12. Third Biennial Report of the Commissioners of the State Geological and Natural History Survey, 1907-1908.

13. The Lithology of Connecticut: by Joseph Barrell and Gerald Francis Loughlin.

14. Catalogue of the Flowering Plants and Ferns of Connecticut growing without cultivation: by a Committee of the Connecticut Botanical Society.

15. Second Report on the Hymeniales of Connecticut: by Edward Albert White.

16. Guide to the Insects of Connecticut: prepared under the direction of Wilton Everett Britton. Part I. General Introduction: by Wilton Everett Britton. Part II. The Euplexoptera and Orthoptera of Connecticut: by Benjamin Hovey Walden.

17. Fourth Biennial Report of the Commissioners of the State Geological and Natural History Survey, 1909-10.

18. Triassic Fishes of Connecticut: by Charles Rochester Eastman.

19. Echinoderms of Connecticut: by Wesley Roscoe Coe.

20. The Birds of Connecticut: by John Hall Sage and Louis Bennett Bishop, assisted by Walter Parks Bliss.

21. Fifth Biennial Report of the Commissioners of the State Geological and Natural History Survey, 1911-1912.

22. Guide to the Insects of Connecticut: prepared under the direction of Wilton Everett Britton. Part III. The Hymenoptera, or Wasp-like Insects, of Connecticut: by Henry Lorenz Viereck, with the collaboration of Alexander Dyer MacGillivray, Charles Thomas Brues, William Morton Wheeler, and Sievert Allen Rohwer.

23. Central Connecticut in the Geologic Past: by Joseph Barrell.

24. Triassic Life of the Connecticut Valley: by Richard Swann Lull.

25. Sixth Biennial Report of the Commissioners of the State Geological and Natural History Survey, 1913-1914.

26. The Arthrostraca of Connecticut: by Beverly Waugh Kunkel.

27. Seventh Biennial Report of the Commissioners of the State Geological and Natural History Survey, 1915-1916.

28. Eighth Biennial Report of the Commissioners of the State Geological and Natural History Survey, 1917-1918.

29. The Quaternary Geology of the New Haven Region, Connecticut: by Freeman Ward, Ph.D.

30. Drainage, Modification and Glaciation in the Danbury Region, Connecticut: by Ruth Sawyer Harvey, Ph.D.

31. Check List of the Insects of Connecticut: by Wilton Everett Britton, Ph.D.

32. Ninth Biennial Report of the Commissioners of the State Geological and Natural History Survey, 1919-1920.

Bulletins 1, 9, 12, 17, 21, 25, 27, 28 and 32 are merely administrative reports containing no scientific matter. The other bulletins may be classified as follows:

Geology: Bulletins 4, 6, 7, 8, 13, 18, 23, 24, 29, 30.

Botany: Bulletins 3, 5, 10, 11, 14, 15.

Zoölogy: Bulletins 2, 16, 19, 20, 22, 26, 31.

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It is intended to follow a liberal policy in gratuitously distributing these publications to public libraries, colleges, and

scientific institutions, and to scientific men, teachers, and others who require particular bulletins for their work, especially to those who are citizens of Connecticut.

Applications or inquiries should be addressed to

GEORGE S. GODARD,
State Librarian,
Hartford, Conn.

In addition to the bulletins above named, published by the State survey, attention is called to three publications of the United States Geological Survey prepared in co-operation with the Geological and Natural History Survey of Connecticut These are the following:

Bulletin 484. The Granites of Connecticut: by T. Nelson Dale and Herbert E. Gregory.

Water-Supply Paper 374. Ground Water in the Hartford, Stamford, Salisbury, Willimantic and Saybrook Areas, Connecticut: by Herbert E. Gregory and Arthur J. Ellis.

Water-Supply Paper 397. Ground Water in the Waterbury Area, Connecticut: by Arthur J. Ellis, under the direction of Herbert E. Gregory.

These papers may be obtained from the Director of the United States Geological Survey at Washington.

CATALOGUE SLIPS.

Connecticut. State geological and natural history survey.

Bulletin no. 31. Check-list of the insects of Connecticut. By Wilton Everett Britton. Hartford, 1920.

397 pp., 23cm.

Britton, Wilton Everett.

Check-list of the insects of Connecticut. By Wilton Everett Britton. Hartford, 1920.

397 pp., 23cm.

(Bulletin no. 31, Connecticut geological and natural history survey.)

CATALOGUE SLIPS.

Zoology.

Britton, W. E. Check-list of the insects of Connecticut. Hartford, 1920.

397 pp., 23cm.

(Bulletin no. 31, Connecticut geological and natural history survey.)

Insects.

Britton, W. E. Check-list of the insects of Connecticut. Hartford, 1920.

397 pp., 23cm.

(Bulletin no. 31, Connecticut geological and natural history survey.)

State of Connecticut

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HERBERT E. GREGORY, SUPERINTENDENT

BULLETIN NO. 31

HARTFORD
Printed for the State Geological and Natural History Survey
1920

State Geological and Natural History Survey

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Herbert E. Gregory

Publication Approved by the Board of Control

CHECK-LIST OF THE INSECTS OF CONNECTICUT

By
WILTON EVERETT BRITTON, Ph.D.
State Entomologist and
Entomologist of the Agricultural Experiment Station, New Haven, Conn.

HARTFORD
Printed for the State Geological and Natural History Survey
1920

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PREFACE.

The purpose of this list is to stimulate an interest in the collection and study of insects in the state, as has been done in New Jersey, and to serve as a check-catalogue of the species in the collections of the institutions and amateur collectors. A work entitled "Guide to the Insects of Connecticut," containing keys to orders, families, genera, and species, and including much information about life-histories, habits, distribution, etc., is already in progress; two papers, the Euplexoptera and Orthoptera, by B. H. Walden, and the Hymenoptera, by Henry L. Viereck, having already been published as Bulletins 16 and 22 of this Survey. It will be many years at least before the Guide can be finished so as to include all orders of insects, and the usefulness of a check-list for service during this time seemed to warrant its preparation and publication.

Only such species are included as are known to occur within the boundaries of the state, and are represented by specimens or reliable records. The list is based on the material in the collection of the Agricultural Experiment Station at New Haven, which has been accumulated during the past twenty years, and is now by far the most important collection of Connecticut insects in existence. Many records have been obtained from the collections of various institutions both in and outside of the state, and from many private collectors. No localities are mentioned in the list, but these will be given in the Guide. Where possible, one or more references are given for each species. These are not references to the original descriptions except in a few cases, but are usually references to the most accessible accounts, sometimes popular and sometimes scientific, containing descriptions, figures, or studies of life-histories and injuries that will aid one in recognizing the species. Only the well-known common names and

synonyms are given, except where a different specific or generic name occurs in the work cited.

The arrangement of the orders, families, and genera is from the lowest to the highest, and in this respect is opposite to that of Dyar's List of Lepidoptera and Blatchley's Coleoptera of Indiana, but coincides with Aldrich's List of Diptera and Calvert's List of Odonata. These works have all been followed except where they have been shown to be in error or where new or additional genera and species were included. For convenient reference the species have been arranged alphabetically.

I wish to acknowledge here my obligations to the following collectors and specialists for furnishing records and identifying species listed in this work.

W. D. Kearfott, Montclair, N. J.; the late Professor John B. Smith, Agricultural Experiment Station, New Brunswick, N. J.; William Beutenmüller and the late John A. Grossbeck, formerly of the American Museum of Natural History, New York, N. Y.; Charles W. Johnson, Boston Society of Natural History, Boston, Mass.; E. P. Van Duzee, Berkeley, Calif., formerly of Buffalo, N. Y.; George Dimmock, Springfield, Mass.; Professors Herbert Osborn and J. S. Hine, Ohio State University, Columbus, Ohio; Dr. E. P. Felt, State Entomologist, Albany, N. Y.; Doctors Philip L. Calvert and Henry Skinner, Philadelphia, Pa.; Professor J. G. Needham, Cornell University, Ithaca, N. Y.; Messrs. Charles W. Leng, John D. Sherman, Jr., Fred Wintersteiner, New York, N. Y.; J. R. de la Torre Bueno, White Plains, N. Y.; William T. Davis, New Brighton, Staten Island, N. Y.; Charles Schaeffer, Brooklyn, N. Y.; Professor W. E. Hinds, Auburn, Ala.; Kenyon F. Chamberlain, Cornwall, Conn.; Arthur I. Bourne, Amherst, Mass.; R. R. Parker, Bozeman, Mont.; J. F. Abbott, St. Louis, Mo.; Professor A. P. Morse, Wellesley College, Wellesley, Mass.; C. A. Frost, Framingham, Mass.; L. W. Swett, Boston, Mass.; Thomas L. Casey, Washington, D. C.; Professors J. W. Folsom and Alexander D. MacGillivray, University of Illinois, Urbana, Ill.; Dr. Edith M. Patch, Agricultural Experiment Station, Orono, Me.; Professors William Morton

Wheeler and Charles T. Brues, Bussey Institution, Forest Hills, Mass.; Charles R. Ely, Washington, D. C.; B. H. Walden, New Haven, Conn.; Dr. L. O. Howard, Dr. H. G. Dyar, the late Otto Heidemann, Henry L. Viereck, Nathan Banks, W. Dwight Pierce, S. A. Rohwer, of Washington, D. C., and John J. Davis, Riverton, N. J., Harrison E. Smith, Arlington, Mass., and Alfred B. Champlain, Harrisburg, Pa., all now or formerly of the Bureau of Entomology; and finally to many collectors whose initials appear after the names of species in the list.

This list must necessarily be very incomplete, but it is believed to be accurate and reliable in regard to the species included. It is hoped that sometime a revised and enlarged edition may be issued, and the author requests that authentic records be sent him of any additional species taken within the state.

W. E. Britton.

Agricultural Experiment Station,
New Haven, Conn., April 6, 1920.

STATISTICS.

Statistics of the insects listed in this Bulletin are as follows: —

Order	Number of Families	Number of Genera	Number of Species and Varieties
Thysanura	5	10	16
Isoptera	1	1	1
Corrodentia	1	6	9
Plecoptera	1	9	11
Ephemerida	1	7	11
Mallophaga	2	4	7
Neuroptera	5	10	16
Mecoptera	1	2	3
Trichoptera	7	17	30
Odonata	3	5	101
Euplexoptera	1	2	2
Orthoptera	6	50	106
Thysanoptera	3	9	12
Hemiptera	37	330	800
Lepidoptera	46	609	1452
Siphonaptera	1	1	1
Diptera	53	455	1111
Coleoptera	83	781	1825
Strepsiptera	2	3	3
Hymenoptera	74	635	1261
Total	333	2946	6781

KEY TO INITIALS OF AUTHORITIES FOR OCCURRENCE OF SPECIES.

A. B. C. — Alfred B. Champlain, Bureau of Economic Zoology, Harrisburg, Pa., formerly of Washington, D. C., Lyme and New Haven, Conn.

A. E. V. — Professor Addison E. Verrill, New Haven, Conn.

A. H. Me. — Rev. A. H. Manee, Southern Pines, N. C., formerly of New Milford, Conn.

A. H. Mn. — Dr. Anna H. Morgan, Mt. Holyoke College, South Hadley, Mass.

A. I. B. — Arthur I. Bourne, Amherst, Mass., formerly of New Haven, Conn.

Ald. Cat. — Aldrich's Catalogue of North American Diptera.

A. P. M. — Professor Albert P. Morse, Wellesley, Mass.

A. W. P. — A. W. Pearson, Norwich, Conn.

B. H. W. — B. H. Walden, New Haven, Conn.

C. C. — Rev. Charles Crozet, formerly of Hartford and Danielson, Conn., now of Rome, Italy.

C. D. J. — Professor C. D. Jarvis, formerly of Storrs, Conn.

C. H. Y. — Professor Clarence H. Young, New York City.

C. R. E. — Charles R. Ely, Washington, D. C. (Summers at East River, Conn.)

C. S. — Charles Schaeffer, Brooklyn, N. Y.

C. W. J. — Charles W. Johnson, Boston, Mass.

C. W. L. — Charles W. Leng, New York City.

D. J. C. — Donald J. Caffrey, Bureau of Entomology, Washington, D. C., formerly of New Haven and Wallingford, Conn.

D. W. C. — D. W. Coquillett, Washington, D. C. Died 1911.

E. D. H. — Edward Doubleday Harris, New York City. Died 1919.

E. F. — Ernst Frensch, Mystic, Conn.

E. L. D. — Edgar L. Dickerson, Newark, N. J.

E. N. — Edward Norton, Farmington, Conn. Died 1894.

E. P. F. — Dr. E. P. Felt, State Entomologist, Albany, N. Y.

E. P. V. D. — Edward P. Van Duzee, San Francisco, Calif., formerly of Buffalo, N. Y.

F. K. — Frederick Knab, Washington, D. C. Died 1918.
F. W. H. — F. W. Holms, Norwich, Conn.
G. A. C. — G. A. Cromie, New Haven, Conn.
G. D. — George Dimmock, Springfield, Mass.
G. H. H. — George H. Hollister, Hartford, Conn.
G. M. — Gustav Mayr, Vienna, Austria. Died 1908.
H. B. — Henry Bird, Rye, N. Y.
H. B. K. — Harry B. Kirk, Harrisburg, Pa., formerly of New Haven, Conn.
H. F. B. — Homer F. Bassett, Waterbury, Conn. Died 1902.
H. H. A. — H. H. Abeling, Torrington, Conn.
H. J. G. — Henry J. Goodman, New Haven, Conn.
H. L. J. — Harry L. Johnson, South Meriden, Conn.
H. L. V. — Henry L. Viereck, Bureau of Biological Survey, Washington, D. C., formerly of New Haven, Conn.
H. M. R. — H. M. Russell, Bureau of Entomology, Washington, D. C., formerly of Bridgeport, Conn. Died 1915.
H. W. F. — Professor H. W. Foote, New Haven, Conn.
H. W. W. — Rev. H. W. Winkley, formerly of Branford, Conn.
J. A. H. — James A. Hyslop, Bureau of Entomology, Washington, D. C.
J. K. L. — J. Kirby Lewis, New Haven, Conn.
J. R. T. B. — J. R. de la Torre Bueno, White Plains, N. Y.
J. S. H. — Professor J. S. Hine, Ohio State University, Columbus, Ohio.
J. T. K. — J. T. Klein, Torrington, Conn. Died 1904.
K. F. C. — Kenyon F. Chamberlain, Cornwall, Conn.
L. B. W. — Lewis B. Woodruff, New York City.
L. W. S. — L. W. Swett, Boston, Mass.
O. H. — Otto Heidemann, Bureau of Entomology, Washington, D. C. Died 1916.
P. L. B. — Philip L. Buttrick, New Haven, Conn.
R. H. — Robert Hochstein, Torrington, Conn. Died 1920.
R. Hd. — Roland Hayward, Milton, Mass. Died 1906.
S. I. S. — Professor Sidney I. Smith, New Haven, Conn.
S. N. D. — Stewart N. Dunning, Hartford, Conn.
S. W. W. — Professor S. W. Williston, Chicago, Ill., formerly of New Haven, Conn. Died 1918.

T. L. C. — Major Thomas L. Casey, Washington, D. C.
W. B. — William Beutenmüller, New York City.
W. C. W. — William C. Woods, Middletown, Conn.
W. E. B. — W. E. Britton, New Haven, Conn.
W. F. — William Fox, Philadelphia, Pa.
W. H. P. — William H. Patton, Hartford, Conn. Died, 1918.
W. M. W. — Professor William M. Wheeler, Forest Hills, Mass.
W. S. B. — Professor W. S. Blatchley, Indianapolis, Ind.

KEY TO REFERENCES CITED IN THIS LIST.

Act. Soc. Sci. Fenn. — Acta Societatis Scientiarum Fennicæ, Helsingfors, Finland.

Am. Ent. — American Entomologist, 1868. St. Louis, Mo. ii volumes; American Entomologist and Botanist, 1870. 2nd ser. i volume, 1880. New York, N. Y.

Am. Jour. Sci. — American Journal of Science and Arts. New Haven, Conn. 1818 — date.

Am. Mus. Jour. — Journal of the American Museum of Natural History. New York, N. Y.

Am. Nat. — The American Naturalist. Now published at New York, N. Y. Begun in 1867.

Annales — A series of papers on Diptera by Jacques Bigot in Annales de la Société Entomologique de France, Paris. 1874-1892.

Ann. Ent. Soc. Am. — Annals of the Entomological Society of America. Columbus, Ohio. 1908-date.

Ann. Lyc. Nat. Hist. N. Y. — Annals of the Lyceum of Natural History of New York, N. Y. 8 vols. 1824-1867.

Ann. Mus. Nat. Hung.— Annals of the National Museum of Hungary.

Ann. N. Y. Acad. Sci. — Annals of the New York Academy of Science. New York, N. Y. Begun in 1877.

Ann. Soc. Ent. France.— Annales de la Société Entomologique de France. Paris. Begun in 1832.

Aphid. Minn. — Synopsis of the Aphididæ of Minnesota, by O. W. Œstlund, Bulletin 4, Geological and Natural History Survey of Minnesota. St. Paul, Minn. 1887.

Berl. Ent. Zeit. or Zeitschr. — Berliner Entomologische Zeitschrift. Berlin, Germany. Begun in 1857.

Bomb. Moths. — A Monograph of the Bombicine Moths of America North of Mexico, by A. S. Packard, Memoirs, National Academy of Sciences, Vol. vii, Part 1. Notodontidæ. Washington, D. C. 1895.

Bost. Jour. Nat. Hist. — Boston Journal of Natural History. Boston, Mass. 1834-1863.

British Aphid. — Monograph of the British Aphides, by G. B. Buckton. 4 vols. Ray Society. London, England. 1875-1883.

Brit. Ent. — British Entomology, by J. Curtis. London, England.

Bull. Am. Mus. Nat. Hist. — Bulletin of the American Museum of Natural History. New York, N. Y. Begun in 1881.

Bull. Brook. Ent. Soc. — Bulletin of the Brooklyn (N. Y.) Entomological Society. 7 vols. 1878-1885. Re-established in 1912.

Bull. Buff. Soc. Nat. Sci. — Bulletin of the Buffalo Society of Natural Sciences. Buffalo, N. Y. Begun in 1874.

Bull. Geol. Geog. Surv. Terr. — Bulletin of the United States Geological and Geographical Survey of the Territories. Washington, D. C.

Bull. Ill. State Lab. Nat. Hist. — Bulletin of the Illinois State Laboratory of Natural History. Urbana, Ill.

Bull. Mosc. — Bulletin de la Société Impériale des Naturalistes de Moscow, Moscow, Russia.

Bull. Sci. Lab. Denison Univ. — Bulletin of the Science Laboratories, Denison University. Granville, Ohio.

Bull. Soc. Ent. Belg. — Bulletin de la Société Entomologique de Belgique. Brussels, Belgium. Begun in 1860.

Bull. Wis. Acad. Sci. — Bulletin Wisconsin Academy of Sciences, Milwaukee, Wis. Begun in 1901.

Bur. Ent. — Bureau of Entomology (formerly Division), United States Department of Agriculture, Washington, D. C. Bulletins, new series. Technical series, Circulars.

Butterfly Book. — The Butterfly Book, by W. J. Holland. Doubleday, Page & Co., Garden City, N. Y.

Can. Bark Beetles. — Canadian Bark Beetles, by J. M. Swaine. Technical Bulletin, No. 14, Entomological Branch, Department of Agriculture, Dominion of Canada, Ottawa, Can. 1918.

Can. Ent. — Canadian Entomologist. London, Ontario, Canada. Begun in 1869.

Cat. Brit. Mus. — Catalogue of the British Museum, London, England.

Cat. Brit. Tin. — Catalogue of British Tineinæ.

Cat. Homop. N. Y. — Catalogue of New York Homoptera.

Cat. Ins. N. Y. — Catalogue of New York Insects, by Asa Fitch. Fourth Annual Report of the Regents of the University of the State of New York, 1851. Reprinted in 9th Report of the N. Y. State Entomologist, 1892.

Cat. Lep. Eur. — Catalogue Méthodique des Lépidoptères d'Europe, by P. A. J. Duponchel. Paris, France. 1844-1846.

Cat. Noc. — Catalogue of Noctuidæ, by J. B. Smith. Bulletin 44. United States National Museum. Washington, D. C. 1893.

Cent. — Diptera Americæ Septentrionalis Indigena, by H. Loew. Originally published in 10 Centuries in Berliner Entomologische Zeitschrift, 1861-72. Berlin, Germany. (Usually cited as "Century.")

Cin. Quart. Jour. Sci. — Cincinnati Quarterly Journal of Science. Cincinnati, Ohio.

Coleop. Can. — Petite Faune Entomologique du Canada: Les Coleoptères, by L'Abbé L. Provancher, with two supplements. Quebec, Canada. 1877 and 1879.

Coleop. Ind. — Coleoptera of Indiana, by W. S. Blatchley. Nature Publishing Company, Indianapolis, Ind.

Collem. Minn. — Collembola of Minnesota, by Joseph E. Guthrie, Zoological Series IV, Geological and Natural History Survey of Minnesota.

Compl. Writ. — Complete Writings on the Entomology of North America, by Thomas Say. 2 vols.

Comst. Butt. — How to Know the Butterflies, by J. H. and A. B. Comstock. D. Appleton & Co., New York, N. Y.

Conn. Geol. Nat. Hist. Surv. — Connecticut Geological and Natural History Survey. Hartford, Conn. Begun in 1903.

Cornell Agr. Expt. Sta. — Cornell Agricultural Experiment Station. Ithaca, N. Y.

Diag. N. A. Phyc. — Diagnoses of North American Phycitidæ and Galleriidæ, by E. L. Ragonot. Paris, France. 1888.

Dipt. Exot. (Suppl.) — Diptères Exotiques Nouveaux ou Peu Connus, by J. Macquart. 2 vols. 5 supplements. 1838-1855. Paris, France.

Dipt. Saund. — Insecta Saundersiana, Diptera, by Francis Walker. 5 parts, London, England. 1850-1856.

Dipt. Scand. — Diptera Scandinaviæ, by J. W. Zetterstedt. London, England. 1842-1860.

Encycl. Meth. — Encyclopédie Méthodique, by A. G. Olivier. 1789-1791 et 1825. Paris, France.

Ent. Am. — Entomologica Americana. Brooklyn Entomological Society, Brooklyn, N. Y. 1885-1890.

Ent. Cont. — Entomological Contributions, by J. A. Lintner. N. Y. State Museum of Natural History, Albany, N. Y.

Ent. Monthl. Mag. — The Entomologists' Monthly Magazine. London, England. Begun in 1864.

Ent. News. — Entomological News. Philadelphia, Pa. Begun in 1892.

Ent. Rec. — Entomologists' Record and Journal of Variation. London, England. Begun in 1890.

Ent. Syst. Suppl. — Entomologia Systematica. Supplement, by J. C. Fabricius.

Enum. Hemip. — Enumeratio Hemipterorum, by C. Stål, Stockholm, Sweden, 1870-1876.

Exot. Schmett. — Lepidopterorum Exoticorum Species Novæ aut Minus Cognitæ, by G. A. W. Herrich-Schæffer. Ratisbonæ. 1850-1858.

Fauna Aust. — Fauna Austriaca (Diptera), by J. R. Schiner. 2 vols. Vienna, Austria. 1862-1864.

Faun. Bor. Am. — Fauna Boreali-Americana, by William Kirby. 4 vols. London, England. 1829-1837.

Faun. Germ. — Faunæ Insectorum Germanicæ Initia.

Gen. Ins. — Genera Insectorum. Fascicles 1-163. Edited by P. Wytsman. Brussels, Belgium. Begun in 1902.

Geol. Geog. Surv. — Bulletin of the United States Geological and Geographical Survey of the Territories. Washington, D. C.

Handb. Brit. Lep. — Handbook of British Lepidoptera, by E. Meyrick. London, England and New York, N. Y. 1895.

Hayden's Geol. Surv. Mont. — Hayden's Geological Survey of Montana. Washington, D. C.

Hemip. Col. — A Preliminary List of the Hemiptera of Colorado, by C. P. Gillette and C. F. Baker. Colorado Agricultural Experiment Station, Bull. 31 (Technical series No. 1), Fort Collins, Col. 1895.

Hemip. Gymn. Eur. — Hemiptera Gymnocerata Europæ, by O. M. Reuter. 5 vols. Helsingfors, Finland. 1878-1896.

Icon. Reg. An. Ins. — Iconographie du Règne Animal. Insectes. vii, by F. E. Guérin-Méneville. Paris, France. 1829-1844.

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Order THYSANURA.

Suborder CINURA.

Family MACHILIDÆ.

Machilis Latreille.

sp. probably **variabilis** Say. Pack. Guide, 9th Ed., pl. x, figs. 8 and 9.

Family LEPISMIDÆ.

Lepisma Linnæus.

quadriseriata Packard. *Ctenolepisma.* Bristle-tail. Silverfish. Fish moth. Pack. Guide, 9th Ed., 623.

saccharina Linnæus. Bristle-tail. Silverfish. Bur. Ent., Bull. 4, new ser., 76.

Thermobia Bergroth.

domestica Packard. *Lepisma.* Silverfish. Bristle-tail. Fish moth. Insect Book, 382; Bur. Ent., Bull. 4, new ser.; 77.

Suborder COLLEMBOLA.

Family SMINTHURIDÆ.

Sminthurus Latreille.

hortensis Fitch. *pruinosus.* Garden flea. Rept. N. Y. State Ent., ii, 207.

Family ENTOMOBRYIDÆ.

Entomobrya Rondani.

sp.

Seira Lubbock.

nigromaculata Lubbock. Collem. Minn., 36.

Isotoma Bourlet.

albella Packard. Rept. Peab. Acad. Sci., v, 32.

sp. near **palustris** Müller. Collem. Minn., 70.

sp.

sp.

Family PODURIDÆ.

Achorutes Templeton.

armatus Nicolet. Proc. U. S. Nat. Mus., 50, 491.
harveyi Folsom. *Ibid.*, 50, 486.
nivicola Fitch. Rept. N. Y. State Ent., ii, 203.

Neanura MacGillivray.

muscorum Templeton. Proc. U. S. Nat. Mus., 50, 508.

Onychiurus Gervais.

fimetarius Linnæus. Proc. U. S. Nat. Mus., 53, 649.

Order **ISOPTERA.**

Family TERMITIDÆ.

Termes Linnæus.

flavipes Kollar. White ant. Bur. Ent., Bull. 4, new ser., 70.

Order **CORRODENTIA.**

Family PSOCIDÆ.

Troctes Burmeister.

divinatorius Müller. *Atropos.* Book louse. Bur. Ent., Bull. 4, new ser., 79.
pulsatorius Linnæus. *Clothilla.* Rept. N. Y. State. Ent., ii, 202.

Pterodela Kolbe.

pedicularis Linnæus. *Psocus salicis. Hemerobius.* Syn. Neurop. N. A., 13.

Cæcilius Curtis.

aurantiacus Hagen. *Psocus.* Syn. Neurop. N. A., 14.

Polypsocus Hagen.

corruptus Hagen. *Psocus.* Syn. Neurop. N. A., 13.

Psocus Latreille.

confraternus Banks. Trans. Am. Ent. Soc., xxxii, 2.
ieidyi Aaron. Proc. Acad. Nat. Sci., Phila., 1886, 15.
sp.

Cerastipsocus Kolbe.

venosus Burmeister. *Psocus.* Syn. Neurop. N. A., 10.

Order PLECOPTERA.

Family PERLIDÆ.

Acroneuria Pictet.

abnormis Newman. Syn. Neurop. N. A. 17.

Perla Geoffrey.

postica Walker. Syn. Neurop. N. A., 23.

Perlesta Banks.

placida Hagen. Syn. Neurop. N. A., 28.

virginica Banks. Trans. Am. Ent. Soc., xxv, 199.

Isoperla Banks.

bilineata Say. Syn. Neurop. N. A., 30.

Alloperla Banks.

imbecilla Say. Syn. Neurop. N. A., 31.

lateralis Banks. Trans. Am. Ent. Soc., xxxvii, 337.

Tæniopteryx Pictet.

frigida Hagen. Syn. Neurop. N. A., 35.

Nemoura Latreille.

perfecta Walker. Syn. Neurop. N. A. 37.

Leuctra Stephens.

tenella Provancher. N. Y. State Mus., Bull. 47, 416.

Capnia Pictet.

necydaloides Pictet. Syn. Neurop. N. A., 32.

Order EPHEMERIDA.

Family EPHEMERIDÆ.

Hexagenia Walsh.

bilineata Say. *Bætis.* Compl. Writ., i, 203. (A.H.Mn.)

limbata Pictet. *Bætis. Palingenia bilineata* Say. *variabilis* Eaton. Syn. Neurop. N. A., 41.

Ephemera Linnæus.

decora Walker. *varia* Eaton. Insect Book, pl. xxvi, 6.

Leptophlebia Westwood.

cupida Say. *Bætis ignava.* Syn. Neurop. N. A., 47.

Ephemerella Walsh.

cornuta Morgan. Ann. Ent. Soc. Am., iv, 114. (A.H.Mn.)

Callibætis Eaton.

ferrugineus Walsh. Trans. Am. Ent. Soc., xxvi, 250.

Siphlonurus Eaton.

aridus Say. *Bœtis.* Syn. Neurop. N. A., 46.

mirus Eaton. Can. Ent., xlvii, 248.

typicus Eaton. *Ibid.*, xlvii, 253.

Heptagenia Walsh.

luridipennis Burmeister. Syn. Neurop. N. A., 49.

terminata Walsh. *Pentagenia.* Proc. Phila., Ent. Soc., ii, 203.

Order **MALLOPHAGA.**

Biting bird lice.

Family PHILOPTERIDÆ.

Goniocotes Burmeister.

abdominalis Piaget. *gigas* Taschenberg. Bur. Ent., Bull. 7, 32; Storrs Agr. Expt. Sta., Bull. 86, 180.

hologaster Nitzsch. Bur. Ent., Bull. 7, 33; Bull. 5, new ser., 192.

Lipeurus Nitzsch.

heterographus Nitzsch. Chicken head louse. Bur. Ent., Bull. 5, new ser., 231; Storrs Agr. Expt. Sta., Bull. 86, 178.

variabilis Nitzsch. Variable chicken louse. Bur. Ent., Bull. 5, new ser., 202.

Family LIOTHEIDÆ.

Menopon Nitzsch.

biseriatum Piaget. Large body hen louse. Bur. Ent., Bull. 5, new ser., 212; Storrs Agr. Expt. Sta., Bull. 86, 174.

pallidum Nitzsch. Small body hen louse. Common biting hen louse. Bur. Ent., Bull. 5, new ser., 210; Storrs Agr. Expt. Sta., Bull. 86, 174.

Nitzschia Denny.

pulicaris Nitzsch. Jour. N. Y. Ent. Soc., x, 225.

Order NEUROPTERA.

Family SIALIDÆ.

Corydalis Latreille.

cornuta Linnæus. Dobson. Hellgrammite. Insect Book, pl. xxiii, 15 and 16.

Chauliodes Latreille.

angusticollis Hagen. N. Y. State Mus., Bull. 68, 462.
pecticornis Linnæus. *Ibid.*, Bull. 68, 461: Insect Book, pl. xxxiii, 14.
rasticornis Rambur. N. Y. State Mus., Bull. 68, 460.
serricornis Say. *Ibid.*, Bull. 68, 459.

Sialis Latreille.

infumata Newman. N. Y. State Mus., Bull. 68, 448: Insect Book, pl. xxiii, 18.

Family HEMEROBIIDÆ.

Hemerobius Linnæus.

humuli Linnæus. Syn. Neurop. N. A., 205.
stigmaterus Fitch. *Ibid.*, 202.

Sympherobius Banks.

amiculus Fitch. *Hemerobius.* Syn. Neurop. N. A., 200.

Micromus Rambur.

posticus Walker. *Hemerobius.* Syn. Neurop. N. A., 204.

Family CHRYSOPIDÆ.

Chrysopa Leach.

harrisi Fitch. Trans. Am. Ent. Soc., xxix, 155.
nigricornis Burmeister. Insect Book, pl. xxvi, 2.
oculata Say. *Ibid.*, 223.

Family MYRMELEONIDÆ.

Myrmeleon Linnæus.

immaculatus DeGeer. Insect Book, pl. xxv, 2.

Brachynemurus Hagen.

abdominalis Say. Insect Book, pl. xxvi, 11.

Family ASCALAPHIDÆ.

Colobopterus Rambur.

excisus Hagen. Can. Ent., xix, 153. (H. J. G.)

Order **MECOPTERA.**

Family PANORPIDÆ.

Panorpa Linnæus.

americana Swederus. Bull. Sci. Lab., Denison Univ., xi, 250.
confusa Westwood. *Ibid.*, xi, 251.
maculosa Hagen. *Ibid.*, xi, 247.
nebulosa Westwood. *Ibid.*, xi, 247.
rufescens Rambur. Insect Book, pl. xxiii, 10.

Bittacus Latreille.

stigmaterus Say. Bull. Sci. Lab., Denison Univ., xi, 260.

Order **TRICHOPTERA.**

Family PHRYGANEIDÆ.

Phryganea Linnæus.

cinerea Walker. Syn. Neurop. N. A., 252.
interrupta Say. Compl. Writ., i, 98.

Neuronia Leach.

angustipennis Hagen. Verh. Zool-Bot. Ges. Wien., 1873, 400.
concatenata Walker. *Phryganea irrorata.* Syn. Neurop. N. A., 249.
postica Walker. *Ibid.*, 251.
stygipes Hagen. Verh. Zool-Bot. Ges. Wien., 1873, 388.

Family LIMNEPHILIDÆ.

Limnephilus Leach.

despectus Walker. Syn. Neurop. N. A., 259.
indivisus Walker. *Ibid.*, 260.
submonilifer Walker. *Ibid.*, 260.

Platycentropus Ulmer.

maculipennis Kolenati. *Hallesus hostis.* Syn. Neurop. N. A., 266.

Pycnopsyche Banks.

scabripennis Rambur. *Hallesus.* Syn. Neurop. N. A., 265.

Dicosmœcus McLachlan.

argus Harris. Entomological Correspondence, 333.

Stenophylax Kolenati.

divergens Walker. *Limnephilus.* Syn. Neurop. N. A., 255.

Chilostigma McLachlan.

difficilis Walker. *Limnephilus.* Syn. Neurop. N. A., 268.

Family RHYACOPHILIDÆ.

Chimarrhia Leach.

aterrima Hagen. Syn. Neurop. N. A., 297.

Family SERICOSTOMATIDÆ.

Helicopsyche Hagen.

borealis Hagen. *Notidobia.* Syn. Neurop. N. A., 271.

Family LEPTOCERIDÆ.

Leptocerus Leach.

sp.

Œcetina Banks.

avara Banks. Trans. Am. Ent. Soc. xxii, 316.

incerta Walker. *Leptocerus.* Syn. Neurop. N. A., 278.

sp. ?

Mystacides Latreille.

nigra Linnæus. *Leptocerus.* Syn. Neurop. N. A., 277.

sepulchralis Walk. *Leptocerus. Ibid.*, 277.

Setodes Rambur.

grandis Banks. Proc. Wash. Ent. Soc. viii, 128.

Family HYDROPSYCHIDÆ.

Macronema Pictet.

zebrata Hagen. Insect Book, pl. xxiii, 9.

Hydropsyche Pictet.

alternans Walker. *morosa.* Syn. Neurop. N. A., 288.
analis Banks. Jour. N. Y. Ent. Soc., 1903, 243.
scalaris Hagen. Syn. Neurop. N. A., 286.
sordida Hagen. *Ibid.*, 290.
sp.

Family HYDROPTILIDÆ.

Orthotrichia Eaton.

pictipes Banks. Trans. Am. Ent. Soc., xxxvii, 359.

Order **ODONATA.**

Dragonflies.

Family AGRIONIDÆ.

Agrion Fabricius.

Calopteryx Leach.

æquabile Say. Insect Book, pl. xlvi, 14.
amatum Hagen. Psyche, 5, 244.
maculatum Beauvois. Insect Book, pl. xlvi, 12.

Hetærina Hagen.

americana Fabricius. Insect Book, pl. xlvi, 9, 11.

Lestes Leach.

congener Hagen. Trans. Am. Ent. Soc., xx, 229.
disjunctus Selys. *Ibid.*, xx, 231.
eurinus Say. Insect Book, pl. xlvii, 11.
forcipatus Rambur. *Ibid.*, pl. xlvi, 1, 5.
inæqualis Walsh. Rept. Geol. Ind., 260.
rectangularis Say. *Ibid.*, pl. xlvii, 9.
uncatus Kirby. *Ibid.*, pl. xlviii, 3.
unguiculatus Hagen. *Ibid.*, pl. xlvii, 15.
vigilax Hagen. *Ibid.*, pl. xlvii, 8.

Argia Rambur.*

mœsta Hagen var. **putrida** Hagen. Insect Book, pl. xlvii, 10, 13.
violacea Hagen. Trans. Am. Ent. Soc., xx, 233.

Nehalennia Selys.

irene Hagen. Insect Book, pl. xlvi, 3.

Amphiagrion Selys.

saucium Burmeister. Insect Book, pl. xlvi, 2.

Chromagrion Needham.

conditum Hagen. N. Y. State Mus., Bull. 68, pl. 13, 1 and 2.

Enallagma Charpentier.

aspersum Hagen. Trans. Am. Ent. Soc., xx, 237.
civile Hagen. Insect Book, pl. xlvii, 12, 14.

* See also appendix.

carunculatum Morse. Psyche, 7, 208.
cyathigerum Charpentier. *annexum*. Ent. News, xi, 154.
divagans Selys. Trans. Am. Ent. Soc., xx, 238.
durum Hagen. Insect Book, pl. xlviii, 13.
ebrium Hagen. Rept. Geol. Ind., xxiv, 270.
exsulans Hagen. Insect Book, pl. xlvi, 4, 8.
geminatum Kellicott. Ent. News, vi, 239.
signatum Hagen. Insect Book, pl. xlvii, 1.
traviatum Selys. Rept. Geol. Ind., 1900, 271.
vesperum Calvert. *pollutum*. Trans. Am. Ent. Soc., xlv, 381.

Ischnura Charpentier.

posita Hagen. Insect Book, pl. xlvi, 7.
verticalis Say. *Ibid.*, pl. xlvii, 2, 3, 5.

Anomalagrion Selys.

hastatum Say. Insect Book, pl. xlvi, 16, 18.

Family ÆSCHNIDÆ.

Hagenius Selys.

brevistylus Selys. Trans. Am. Ent. Soc., xx, 241.

Ophiogomphus Selys.

johannus Needham. Can. Ent., xxix, 182.
rupinsulensis Walsh. Rept. Geol. Ind., xxiv, 298.

Lanthus Needham.

albistylus Hagen. *Gomphus navius*. Trans. Am. Ent. Soc., xx, 242. (L. B. W.)

Gomphus Leach.

abbreviatus Hagen. Trans. Am. Ent. Soc., xx, 243.
borealis Needham. N. Y. State Mus., Bull. 68, 265.
brevis Hagen. N. Y. State Mus., Bull., 47, 449.
exilis Selys. Trans. Am. Ent. Soc., xx, 243.
sordidus Hagen. *lividus* Selys. Ent. News, xiv, 256.
spicatus Hagen. Rept. Geol. Ind., 292, 1899.

Dromogomphus Selys.

spinosus Selys. N. Y. State Mus., Bull. 47, 462.

Cordulegaster Leach.

diastotops Selys. *lateralis*. Proc. Bost. Soc. Nat. Hist., x, 211.

erroneus Hagen. Trans. Am. Ent. Soc., xx, 246.
maculatus Selys. Insect Book, pl. xliv, 7.
obliquus Say. Rept. Geol. Ind., xxiv, 300.

Anax Leach.

junius Drury. Insect Book, pl. xl, 15.

Æshna Fabricius.

canadensis Walker. Can. Ent., xl, 384.
clepsydra Say. *Ibid.*, xl, 383.
constricta Say. Insect Book, pl. xli, 4.
juncea Linnæus. Can. Ent., xl, 385.
tuberculifera Walker. Can. Ent., xl, 385.
umbrosa Walker. *Ibid.*, xl, 380.
verticalis Hagen. Trans. Am. Ent. Soc., xx, 248.

Epiæschna Selys.

heros Fabricius. Insect Book, pl. xli, 7.

Boyeria MacLachlan.

vinosa Say. *Fonscolombia.* Insect Book, pl. xliv, 4.

Basiæschna Selys.

janata Say. Insect Book, pl. xliv, 1.

Gomphæschna Selys.

furcillata Say. Rept. Geol. Ind., xxiv, 302.

Family LIBELLULIDÆ

Didymops Rambur.

transversa Say. Insect Book, pl. xlv, 9.

Epicordulia Selys.

princeps Hagen. Insect Book, pl. xiv, 8.

Helocordulia Needham.

uhleri Selys. N. Y. State Mus., Bull. 47, 496.

Tetragoneuria Hagen.

cynosura Say. Trans. Am. Ent. Soc., xx, 252.
cynosura var. **simulans** Muttkowski. Bull. Wis. Acad. Sci., 95, 1911.
spinigera Selys. Rept. Geol. Ind., 311. 1899.
spinosa Hagen. N. Y. State Mus., Bull. 47, 495.

Somatochlora Selys.*

elongata Scudder, var. **minor** Calvert. Ent. News, ix, 87.
tenebrosa Say. Rept. Geol. Ind., 314. 1899.

Cordulia Leach.

shurtleffi Scudder. N. Y. State Mus., Bull. 47, 506.

Dorocordulia Needham.

lepida Hagen. N. Y. State Mus., Bull. 47, 506.
libera Selys. Rept. Geol. Ind., 314. 1899.

Libellula Linnæus.

auripennis Burmeister. Insect Book, pl. xlv, 6.
cyanea Fabricius. *Ibid.*, pl. xliv, 2, 3.
exusta Say. *Ibid.*, pl. xli, 5, 6.
incesta Hagen. Insect Book, pl. xliii, 3.
luctuosa Burmeister. *basalis. Ibid.*, pl. xliii, 2.
pulchella Drury. *Ibid.*, pl. xl, 7.
quadrimaculata Linnæus. *Ibid.*, pl. xl, 3.
semifasciata Burmeister. *Ibid.*, pl. xlv, 5.
vibrans Fabricius. *Ibid.*, pl. xl, 11.

Plathemis Hagen.

lydia Drury. *trimaculata.* Insect Book, pl. xl, 1, 5.

Erythrodiplax Brauer.

berenice Drury. *Micrathyria.* Insect Book, pl. xli, 1, 2, 3.

Nannothemis Brauer.

bella Uhler. Trans. Am. Ent. Soc., xx, 260.

Tramea Hagen.

carolina Linnæus. Insect Book, pl. xliii, 8.

Sympetrum Newman.

corruptum Hagen. *Diplax.* Insect Book, pl. xlii, 5.
costiferum Hagen. *Ibid.*, pl. xliv, 8, 9.
rubicundulum Say. *Diplax. Ibid.*, pl. xlii, 8, 9.
semicinctum Say. *Diplax. Ibid.*, pl. xliii, 7.
vicinum Hagen. *Diplax.* Trans. Am. Ent. Soc., xx, 264.

Leucorhinia Brittinger.

frigida Hagen. Trans. Am. Ent. Soc., xvii, 231. (L. B. W.)
glacialis Hagen. N. Y. State Mus., Bull. 47, 518.
intacta Hagen. Insect Book, pl. xliv, 5, 6.

* See also appendix.

Celethemis Hagen.

elisa Hagen. Insect Book, pl. xl, 14.
eponina Drury. *Ibid.*, pl. xliii, 4.
monomelæna Williamson. Ohio Nat., 10. 1910.

Perithemis Hagen.

domitia Drury. *tenera* Say. Insect Book, pl. xl, 4, 6.

Erythemis Hagen.

simplicicollis Say. *Mesothemis.* Insect Book, pl. xli, 8, 9.

Pachydiplax Brauer.

longipennis Burmeister. Trans. Am. Ent. Soc., xx, 265.

Order **EUPLEXOPTERA.**

Earwigs.

Family FORFICULIDÆ.

Anisolabis Fieber.

maritima Bonnel. Maritime earwig. Conn. Geol. Nat. Hist. Surv., Bull. 16, 45.

Labia Leach.

minor Linnæus. Conn. Geol. Nat. Hist. Surv., Bull. 16, 47.

Order ORTHOPTERA.

Grasshoppers, Crickets, and Cockroaches.

Family BLATTIDÆ.

Parcoblatta Hebard.

pennsylvanica DeGeer. Pennsylvania cockroach. Conn. Geol. Nat. Hist. Surv., Bull. 16, 54.

uhleriana Saussure. *Ibid.*, Bull. 16, 55.

virginica Brunner, *Ischnoptera borealis.* Proc. Acad. Nat. Sci., Phila., 44. 1910.

Blattella Caudell.

germanica Linnæus. *Ectobia. Phyllodromia.* Croton bug. German cockroach. Bur. Ent., Bull. 4, new ser., 92: Conn. Geol. Nat. Hist. Surv., Bull. 16, 56.

Blatta Linnæus.

orientalis Linnæus. Oriental cockroach. Bur. Ent., Bull. 4, new ser., 91: Conn. Geol. Nat. Hist. Surv., Bull. 16, 57.

Periplaneta Burmeister.

americana Linnæus. American cockroach. Bur. Ent., Bull. 4, new ser., 84: Conn. Geol. Nat. Hist. Surv., Bull. 16, 58.

australasiæ Fabricius. Australian cockroach. Bur. Ent., Bull. 4, new ser., 91. Conn. Geol. Nat. Hist. Surv., Bull. 16, 59.

Nyctibora Burmeister.

noctivaga Rehn. *mexicana* Saussure. In bananas. Conn. Geol. Nat. Hist. Surv., Bull. 16, 53.

Pycnoscelus Scudder.

surinamensis Linnæus. *Leucophæa.* In greenhouse. Rept. Conn. Agr. Expt. Sta., 307. 1917.

Panchlora Burmeister.

cubensis Saussure. *poeyi. viridis.* Green cockroach. In bunches of bananas. Conn. Geol. Nat. Hist Surv, Bull. 16, 53.

Family PHASMIDÆ.

Diapheromera Gray.

femorata Say. Walking stick. Conn. Geol. Nat. Hist. Surv., Bull. 16, 62.

Family MANTIDÆ.

Tenodera Burmeister.

sinensis Saussure. *Paratenodera.* Chinese praying mantis. Conn. Geol. Nat. Hist. Surv., Bull. 16, 60.

Manomera Rehn and Hebard.

blatchleyi Caudell. Proc. U. S. Nat. Mus., 44, 612. (A.P.M.)

Family ACRIDIDÆ.

Nomotettix Morse.

cristatus Scudder. Crested grouse locust. Conn. Geol. Nat. Hist. Surv., Bull. 16, 66.

cristatus var. **carinatus** Scudder. *Ibid.,* Bull. 16, 67.

Tettix Charpentier.

angustus Hancock. Trans. Am. Ent. Soc., xxiii, 238. (A.P.M.)

granulatus Kirby. Conn. Geol. Nat. Hist. Surv., Bull. 16, 68.

ornatus Say. Ornate grouse locust. *Ibid.,* Bull. 16, 67.

Paratettix Bolivar.

cucullatus Burmeister. Hooded grouse locust. Conn. Geol. Nat. Hist. Surv., Bull. 16, 69.

Tettigidea Scudder.

parvipennis Harris. Conn. Geol. Nat. Hist. Surv., Bull. 16, 70.

parvipennis var. **pennata** Morse. *Ibid.,* Bull. 16, 70.

Eritettix Bruner.

carinatus Scudder. Conn. Geol. Nat. Hist. Surv., Bull. 16, 75.

Orphulella Giglio-Tos.

olivacea Morse. Conn. Geol. Nat. Hist. Surv., Bull. 16, 81.

pelidna Burmeister. Smaller spotted-winged locust. *Ibid.,* Bull. 16, 79.

speciosa Scudder. *Ibid.,* Bull. 16, 80.

Dicromorpha Morse.

viridis Scudder. Short-winged green locust. Conn. Geol. Nat. Hist. Surv., Bull. 16, 76.

Chlœaltis Harris.

conspersa Harris. Sprinkled locust. Conn. Geol. Nat. Hist. Surv., Bull. 16, 83.

Stenobothrus Fischer.

curtipennis Harris. Short-winged brown locust. Conn. Geol. Nat. Hist. Surv., Bull. 16, 83.

Mecostethus Fieber.

lineatus Scudder. Conn. Geol. Nat. Hist. Surv., Bull. 16, 85.

platypterus Scudder. *Ibid.*, Bull. 16, 86. (A. P. M.)

Arphia Stål.

sulphurea Fabricius. Sulphur-winged locust. Conn. Geol. Nat. Hist. Surv., Bull. 16, 89.

xanthoptera Germar. *Ibid.*, Bull. 16, 90.

Chortophaga Saussure.

viridifasciata DeGeer. Green-striped locust. Conn. Geol. Nat. Hist. Surv., Bull. 16, 90.

Encoptolophus Scudder.

sordidus Burmeister. Clouded locust. Conn. Geol. Nat. Hist. Surv., Bull. 16, 92.

Camnula Stål.

pellucida Scudder. Clear-winged locust. Conn. Geol. Nat. Hist. Surv., Bull. 16, 92.

Hippiscus Saussure.

tuberculatus Beauvois. Coral-winged locust. Conn. Geol. Nat. Hist. Surv., Bull. 16, 94.

Dissosteira Scudder.

carolina Linnæus. Carolina locust. Conn. Geol. Nat. Hist. Surv., Bull. 16, 96.

Spharagemon Scudder.

bolli Scudder. Conn. Geol. Nat. Hist. Surv., Bull. 16, 99.

collare Scudder, var. **scudderi** Morse. *Ibid.*, Bull 16, 98.

collare var. **wyomingianum** Thomas. Mottled sand locust. *Ibid.*, Bull. 16, 98.

saxatile Morse. *Ibid.*, Bull. 16, 100.

Scirtetica Saussure.

marmorata Harris. Conn. Geol. Nat. Hist. Surv., Bull. 16, 101.

Psinidia Stål.

fenestralis Serville. Long-horned locust. Conn. Geol. Nat. Hist. Surv., Bull. 16, 103.

Trimerotropis Stål.

maritima Harris. Maritime locust. Conn. Geol. Nat. Hist. Surv., Bull. 16, 104.

Circotettix Scudder.

verruculatus Kirby. Conn. Geol. Nat. Hist. Surv., Bull. 16, 105.

Pseudopomala Morse.

brachyptera Scudder. Conn. Geol. Nat. Hist. Surv., Bull. 16, 73.

Schistocerca Stål.

alutacea Harris. Leather-colored locust. Conn. Geol. Nat. Hist. Surv., Bull. 16, 108.

americana Drury. American locust. *Ibid.*, Bull. 16, 108.

rubiginosa Harris. Rusty locust. *Ibid.*, Bull. 16, 109.

Melanoplus Stål.

atlanis Riley. Lesser locust. Conn. Geol. Nat. Hist. Surv., Bull. 16, 117.

bivittatus Say. Yellow-striped locust. *Ibid.*, Bull. 16, 121.

fasciatus Walker and Barnston. *Ibid.*, Bull. 16, 119.

femur-rubrum DeGeer. Red-legged locust. *Ibid.*, Bull. 16, 118.

luridus Dodge. *Ibid.*, Bull. 16, 120.

mancus Smith. *Ibid.*, Bull. 16, 115.

minor Scudder. *Ibid.*, Bull. 16, 119.

punctulatus Uhler. Grizzly locust. *Ibid.*, Bull. 16, 122.

scudderi Uhler. Scudder's short-winged locust. *Ibid.*, Bull. 16, 116.

Paroxya Scudder.

floridana Thomas. Conn. Geol. Nat. Hist. Surv., Bull. 16, 123

Family LOCUSTIDÆ.

Scudderia Stål.

curvicauda DeGeer. Curve-tailed katydid. Conn. Geol. Nat. Hist. Surv., Bull. 16, 127.

furcata Bruner. Fork-tailed katydid. *Ibid.*, Bull. 16, 128.

pistillata Bruner. *Ibid.*, Bull. 16, 128.

septentrionalis Serville. *Ibid.*, Bull. 16, 129.

texensis Saussure-Pictet. *Ibid.*, Bull. 16, 126.

Amblycorypha Stål.

oblongifolia DeGeer. Oblong-winged katydid. Conn. Geol. Nat. Hist. Surv., Bull. 16, 130.

rotundifolia Scudder. Round-winged katydid. *Ibid.*, Bull. 16, 130.

Cyrtophyllus Burmeister.

perspicillatus Linnæus. *concavus*. True katydid. Conn. Geol. Nat. Hist. Surv., Bull. 16, 131.

Conocephalus Thunberg.

ensiger Harris. Sword-bearer. Conn. Geol. Nat. Hist. Surv., Bull. 16, 133.
exiliscanorus Davis. *Ibid.*, Bull. 16, 134.
robustus Scudder. *Ibid.*, Bull. 16, 135.
triops Linnæus. *Ibid.*, Bull. 16, 135.

Orchelimum Serville.

concinnum Scudder. *herbaceum*. Conn. Sttate Geol. Nat. Hist. Surv., Bull. 16, 139.
gladiator Bruner. Can. Ent., xxiii, 71.
vulgare Harris. Common meadow grasshopper. Conn. Geol. Nat. Hist. Surv., Bull. 16, 139.

Xiphidium Serville.

brevipenne Scudder Short-winged meadow grasshopper. Conn. Geol. Nat. Hist. Serv., Bull 16, 137.
ensiferum Scudder. *Ibid.*, Bull. 16, 137. (W. S. B.)
fasciatum DeGeer. Slender meadow grasshopper. *Ibid.*, Bull. 16, 137.
spartinæ Fox. Ent. News, xxiii, 1111. (A.P.M.)

Atlanticus Scudder.

dorsalis Burmeister. Conn. Geol. Nat. Hist. Surv., Bull. 16, 141.
pachymerus Burmeister. *Ibid.*, Bull. 16, 141.

Ceutophilus Scudder.

brevipes Scudder. Conn. Geol. Nat. Hist. Surv., Bull. 16, 145.
gracilipes Haldeman. *Ibid.*, Bull. 16, 143.
grandis Scudder. *Ibid.*, Bull. 16, 144.
latens Scudder. *Ibid.*, Bull. 16, 146.
maculatus Harris. *Ibid.*, Bull. 16, 145.
neglectus Scudder. *Ibid.*, Bull. 16, 147.
pallidipes Walker. *Ibid.*, Bull. 16, 146.
terrestris Scudder. *Ibid.*, Bull. 16, 144.

Family GRYLLIDÆ.

Gryllotalpa Linnæus.

borealis Burmeister. Northern mole cricket. Conn. Geol. Nat. Hist. Surv., Bull. 16, 149.

Tridactylus Olivier.

terminalis Uhler. Conn. Geol. Nat. Hist. Surv., Bull. 16, 150.

Nemobius Serville.

carolinus Scudder. Conn. Geol. Nat. Hist. Surv., Bull. 16, 152.

fasciatus DeGeer. *vittatus.* Small black cricket. Striped ground cricket. *Ibid.,* Bull. 16, 151.

griseus Walker. Can. Ent., xxxiv, 182.

maculatus Blatchley. Orthop. Ind., 424.

palustris Blatchley. Marsh ground cricket. Conn. Geol. Nat. Hist. Surv., Bull. 16, 152.

Gryllus Linnæus.

abbreviatus Serville. Common field cricket. Conn. Geol. Nat. Hist. Surv., Bull. 16, 154.

domesticus Linnæus. House cricket. Conn. Geol. Nat. Hist. Surv., 16, 154.

pennsylvanicus Burmeister. Pennsylvania field cricket. *Ibid.,* Bull. 16, 154.

Œcanthus Serville.

angustipennis Fitch. Narrow-winged tree cricket. Conn. Geol. Nat. Hist. Surv., Bull. 16, 158.

exclamationis Davis. *Ibid.,* Bull. 16, 158.

nigricornis Walker. *fasciatus* Fitch. Striped tree cricket. *Ibid., Bull.* 16, 159.

niveus DeGeer. Snowy tree cricket. *Ibid.,* Bull. 16, 157.

pini Beutenmüller. Pine tree cricket. *Ibid.,* Bull. 16, 160. (W. B.)

quadripunctatus Beutenmüller. Four-spotted tree cricket. *Ibid.,* Bull. 16, 159.

Anaxipha Saussure.

exigua Say. Conn. Geol. Nat. Hist. Surv., Bull. 16, 162.

Xabea Walker.

bipunctatus DeGeer. Two-spotted tree cricket. Conn. Geol. Nat. Hist. Surv., Bull. 16, 161.

Order THYSANOPTERA (PHYSOPODA).

Family ÆOLOTHRIPIDÆ.

Æolothrips Haliday.

fasciatus Linnæus. *Colcothrips trifasciata.* Proc. U. S. Nat. Mus., xxvi, 127.

Family THRIPIDÆ.

Euthrips Targioni-Tozzetti.

tritici Fitch. *Thrips.* Wheat thrips. Proc. U. S. Nat. Mus., xxvi, 148.

Anaphothrips Uzel.

striatus Osborn. Grass thrips. Proc. U. S. Nat. Mus., xxvi, 161.

Heliothrips Haliday.

femoralis Heeger. *cestri.* Proc. U. S. Nat. Mus., xxvi, 172.
hæmorrhoidalis Bouché. *Ibid.*, xxvi, 168.

Parthenothrips Uzel.

dracænæ Heeger. Proc. U. S. Nat. Mus., xxvi, 176.

Thrips Linnæus.

perplexus Beach. Proc. U. S. Nat. Mus., xxvi, 184.
tabaci Lindeman. Onion thrips, *Ibid.*, xxvi, 179: Rept. Conn. Agr. Expt. Sta., 1903, 266.

Family PHLŒOTHRIPIDÆ.

Anthothrips Uzel.

verbasci Osborn. Proc. U. S. Nat. Mus., xxvi, 189.
sp.

Liothrips Uzel.

citricornis Hood. Can. Ent., xl, 306.

Leptothrips Hood.

aspersus Hinds. *Cryptothrips.* Proc. U. S. Nat. Mus., xxvi, 265.

Order HEMIPTERA.

Bugs, Lice, Aphids, Scale Insects, etc.

Suborder PARASITICA.

Family PEDICULIDÆ.

Pediculus Linnæus.

corporis DeGeer. *vestimenti* Leach. Body-louse of man. Bur. Ent. Bull. 5, new series.

humanus Linnæus. *capitis.* Head-louse of man. *Ibid.,* 166.

Phthirius Leach.

pubis Linnæus. *inguinalis* Leach. Crab-louse of man. Bur. Ent., Bull. 5, new series, 165.

Hæmatopinus Leach.

eurysternus Nitzsch. Short-nosed ox-louse. Bur. Ent., Bull. 5, new series, 172.

Linognathus Enderlein.

piliferus Burmeister. Sucking dog-louse. Bur. Ent., Bull. 5, new series, 169.

vituli Linnæus. Long-nosed ox-louse. *Ibid.,* 176.

Suborder HOMOPTERA.

Family FULGORIDÆ.

Scolops Schaum.

angustatus Uhler. Bull. Geol. Geog. Surv., I, 350.

sulcipes Say. Compl. Writ., ii, 254.

Phylloscelis Germar.

atra Germar. Proc. Acad. Nat. Sci. Phila., 1907, 472.

atra var. **albovenosa** Millichar. *Ibid.,* 1907, 472.

Elidiptera Spinola.

Helicoptera Amyot and Serville.

variegata Van Duzee. Proc. Acad. Nat. Sci. Phila., 1907, 479. sp.

Catonia Uhler.

grisea Van Duzee. Proc. Acad. Nat. Sci. Phila., 1907, 480, 482.
impunctata Fitch. *Myndus*. *Ibid.*, 1907, 480, 482.

Oliarus Stål.

cinnamomeus Provancher. Proc. Acad. Nat. Sci. Phila., 1907, 485, 488.
complectus Ball. *Ibid.*, 1907, 485, 488.
humilis Say. *Ibid.*, 1907, 485, 488.

Cixius Latreille.

basalis Van Duzee. Bull. Buff. Soc. Nat. Sci., v, 191.
colœpeum Fitch. Proc. Acad. Nat. Sci. Phila., 1907, 489, 490.
misellus Van Duzee. (erroneously *stigmaticus*) Can. Ent., xxxviii, 408.
pini Fitch. *Ibid.*, xxxviii, 408.

Œcleus Stål.

borealis Van Duzee. Bull. Buff. Soc. Nat. Sci., x, 495.
campestris Ball. Can. Ent., xxxiv, 156.
decens Stål. Berl. Ent., Zeitschr., vi, 307.

Myndus Stål.

fulvus Osborn. Ohio Nat., iv, (2) 46.

Bruchomorpha Newman.

oculata Newman. Can. Ent., xxi, 7.

Acanalonia Spinola.

Amphiscepa Uhler.

bivittata Say. *Flata*. Insect Book, Pl. xxviii, 20. Compl. Writ., ii, 255.

Ormenis Stål.

pruinosa Say. *Flata*. Insect Book, Pl. xxvii, 28. Compl. Writ., ii, 373.
septentrionalis Spinola. Insect Book, Pl. xxvii, 24, 27; Ann. Soc. Ent. France, Ser. i, viii, 1839.

Lamenia Stål.

obscura Ball. Can. Ent. xxxiv, 262.
vulgaris Fitch. Cat. Ins. N. Y., 47, 1851.

Otiocerus Kirby.

amyoti Fitch. Ins. N. Y., iii, 394.
degeerii Kirby. Trans. Linn. Soc. London, xiii, 16.

Stenocranus Fieber.

dorsalis Fitch, var. **vittatus** Stål. (*lautus* Van Duzee.) Bull. Buff. Soc. Nat. Sci., v, 231.

Kelisia Fieber.

axialis Van Duzee. Bull. Buff. Soc. Nat. Sci., v, 191.

Prokelisia Osborn.

marginata Van Duzee. Bull. Buff. Soc. Nat. Sci., v, 235.

Pissonotus Van Duzee.

ater Van Duzee. Bull. Buff. Soc.. Nat. Sci., v, 190.

Stobæra Stål.

tricarinata Say. *Delphax*. Compl. Writ., ii, 255.

Liburniella Crawford.

ornata Stål. Berl. Ent. Zeitschr., vi, 315.

Liburnia Stål.

campestris Van Duzee. Bull. Buff. Soc. Nat. Sci., v, 191.
laminalis Van Duzee. *Ibid.*, v, 251.
lateralis Van Duzee. *Ibid.*, v, 253.
lutulenta Van Duzee. *Ibid.*, v, 191.
pellucida Fabricius. *Ibid.*, v, 191.
puella Van Duzee. *Ibid.*, v, 191.

Family CICADELLIDÆ.*

Jassoidea.

Agallia Curtis.

constricta Van Duzee. Can. Ent., xxvi, 90.
novella Say. Proc. Acad. Nat. Sci. Phila., 1831, 6, 309.
quadripunctata Provancher. Nat. Can., 1872, 4, 376.
sanguinolenta Provancher. *Ibid.*, 1872, 4, 376.

Idiocerus Lewis.

lachrymalis Fitch. Ohio State Univ., Bull. 22, 507, 1905.
pallidus Fitch. *Ibid.*, Bull. 22, 505, 1905.
fitchi Van Duzee. *maculipennis*. Proc. Dav. Acad. Sci., vii, 73, 127.
provancheri Van Duzee. Buff. Soc. Nat. Sci., Bull. 5, 194.
scurra Germar. *gemmisimulans* Leonard and Crosby. Jour. Econ. Ent., 8, 542.
sp.

* See also appendix.

Macropsis Lewis.

Pediopsis Burmeister.

trimaculata Fitch. *insignis* Van Duzee. Ent. Amer., v, 172.
viridis Fitch. Rept. N. Y. State Ent., 9, 399.
virescens Gmelin, var. graminea Fabricius. Me. Agr. Expt. Sta., Bull. 239, 90.

Oncopsis Burmeister.

cognatus Van Duzee. Ent. Amer., vi, 225.
fitchi Van Duzee. *fenestratus* Fitch. Rept. N. Y. State Ent., 9, 400.
minor Fitch. Ent. Amer., vi, 228.
sobrius Walker. *Ibid.*, vi, 223.
variabilis Fitch. Ent. Amer., vi, 224.
sp.

Oncometopia Stål.

lateralis Fabricius, var. limbata Say. Compl. Writ., ii, 258.

Cicadella Latreille.

Tettigoniella Jacoby.

gothica Signoret, *Tettigonia*. Ohio State Univ. Bull., ser. 5, No. 21, 19.

Kolla Distant.

bifida Say. *Tettigonia*. Bull. Ill. State Lab. Nat. Hist., iii, 27.
tripunctata Fitch. *Tettigonia*. Ohio State Univ. Bull., Ser. 5, No. 21, 26.

Helochara Fitch.

communis Fitch. Ohio State Univ. Bull., Ser. 5, No. 21, 28.

Graphocephala Van Duzee.

Diedrocephala Ball.

coccinea Fœrster. *Tettigonia*. Bull. Ill. State Lab. Nat. Hist., iii, 23.
coccinea var. teliformis Walker. Bull. Buff. Soc. Nat. Sci., ix, 214.

Dræculacephala Ball.

angulifera Walker. Ohio State Univ. Bull., Ser. 5, No. 21, 33, 35.
minor Walker. Bull. Buff. Soc. Nat. Sci., ix, 214.

mollipes Say. *Tettigonia.* Bull. Ill. State Lab. Nat. Hist., iii, 24.
noveboracensis Fitch. *Tettigonia. Ibid.,* iii, 24.

Penthimia Germar.

americana Fitch. Rept. N. Y. State Ent., ix, 397.

Gypona Germar.

bipunctulata Woodworth. Bull. Ill. State Lab. Nat. Hist., iii, 30.
cinerea Uhler. Bull. Geol. Geog. Surv., 3, 460.
geminata Osborn. Rept. N. Y. State Ent., xx, 513.
melanota Spangberg. Spec. Gyponæ, 1878, 23.
octolineata Say. *striata. flavilineata.* Bull. Ill. State Lab. Nat. Hist., iii, 30.
rugosa Spangberg. Rept. N. Y. State Ent., 20, 513.
scarlatina Fitch. *Ibid.,* ix, 397.

Stroggylocephalus Flor.

agrestris Fallen. Bull. Buff. Soc. Nat. Sci., v, 197.

Xerophlœa Germar.

major Baker. Psyche, viii, 285.
viridis Fabricius. Proc. Iowa Acad. Sci., iv, 179.

Acucephalus Germar.

albifrons Linnæus. *Tettigonia mixta.* Compl. Writ., ii, 258.

Parabolocratus Fieber.

viridis Uhler. Bull. Geol. Geog. Surv., 3, 462, 1877.

Mesamia Ball.

vitellina Fitch. *Paramesus.* Rept. N. Y. State Ent., 9, 399.

Scaphoideus Uhler.

auronitens Provancher. Jour. Cin. Soc. Nat. Hist., xix, 194.
carinatus Osborn. Ohio Nat., xi, 251.
consors Uhler. Jour. Cin. Soc. Nat. Hist., xix, 196.
immistus Say. *Ibid.,* xix, 204.
intricatus Uhler. *Ibid.,* xix, 202.
lobatus Van Duzee. Ohio Nat., xi, 250.
luteolus Van Duzee. Jour. Cin. Soc. Nat. Hist., xix, 203.
melanotus Osborn. Ohio Nat., xi, 251.
opalinus Osborn. Rept. N. Y. State Ent., 20, 525.
productus Osborn. Jour. Cin. Soc. Nat. Hist., xix, 200.
unicolor Osborn. *consors* var. *unicolor. Ibid.,* xix, 196.
sp.

Platymetopius Burmeister.

acutus Say. *Jassus.* Compl. Writ., ii, 382.
frontalis Van Duzee. Can. Ent., xxii, 112.
frontalis var.
hyalinus Osborn. Ent. News, xi, 501.
magdalensis Provancher. Tenn. State Bd. Ent., Bull. 17, 41.

Deltocephalus Burmeister.

apicatus Osborn. Me. Agr. Expt. Sta., Bull. 238, 120.
balli Van Duzee. *nigrifrons.* Bur. Ent., Bull., 198, 77.
configuratus Uhler. Bull. Geol. Geog. Surv., iv, 511, 1871.
flavicosta Stål. *flavocostatus.* Can. Ent., xxiv, 116.
inimicus Say. *Jassus.* Compl. Writ., ii, 382; Me. Agr. Expt. Sta., Bull. 238, 123.
littoralis Ball. Bull. Buff. Soc. Nat. Sci., ix, 221.
melsheimerii Fitch. Tenn. State Bd. Ent., Bull., 17, 48.
minimus Osborn and Ball. *Ibid.,* 17, 47.
pascuellus Fallen. *minki* Fieber. Me. Agri. Expa. Sat., Bull., 238, 118.
pictus Osborn. Tenn. State Bd. Ent., Bull. 17, 43.
sayi Fitch. *Ibid.,* Bull. 17, 46.
simplex Van Duzee. Trans. Am. Ent. Soc., xix, 304.
sylvestris Osborn and Ball. Tenn. State Bd. Ent., Bull., 17, 49.

Driotura Osborn and Ball.

gammaroides Van Duzee. Me. Agr. Expt. Sta., Bull, 238, 132.

Euscelis Brullé.

Athysanus Burmeister.

anthracinus Van Duzee. Ohio Nat., ii, 241.
curtisii Fitch. *Ibid.,* ii, 251.
extrusus Van Duzee. *Ibid.,* ii, 237.
relativus Gillette and Baker. *obsoletus. Ibid.,* ii, 239.
striatulus Fallen. *plutonius* Uhler. *Ibid.,* ii, 240.
striolus Fallen. *Ibid.,* ii, 235.
uhleri Ball. Can. Ent., xliii, 200.
vaccini Van Duzee. Ohio Nat., ii, 242.
varus Ball. *Ibid.,* ii, 239.

Eutettix Van Duzee.

cinctus Osborn and Ball. Proc. Dav. Acad. Sci., xii, 64.
johnsoni Van Duzee. *Mesamia. Ibid.,* xii, 66.

marmoratus Van Duzee. *Ibid.*, xii, 35.
seminudus Say. *Athysanus. Ibid.*, xii, 42.
strobi Fitch. *Ibid.*, xii, 44.

Phlepsius Fieber.

collitus Ball. Can Ent., xxxv, 227.
fulvidorsum Fitch. Trans. Am. Ent. Soc., xix, 74.
fuscipennis Van Duzee. *Ibid.*, xix, 70.
incisus Van Duzee. *Ibid.*, xix, 73.
irroratus Say. *Ibid.*, xix, 71.
lobatus Osborn. Proc. Ia. Acad. Sci., v, 247.
majestus Osborn and Ball. Tenn. St. Bd. Ent., Bull. 17, 76.
nebulosus Van Duzee. Trans. Am. Ent. Soc., xix, 77.
solidaginis Walker. *humidus. Ibid.*, xix, 76.

Acinopterus Van Duzee.

acuminatus Van Duzee. Psyche, vi, 308.

Thamnottettix Zetterstedt.

brittoni Osborn. Proc. Dav. Acad. Sci., x, 166.
clitellarius Say. *Jassus.* Compl. Writ., ii, 384.
eburatus Van Duzee. Can. Ent., xxi, 10.
kennicotti Uhler. Proc. Ent. Soc. Phila., ii, 161.
melanogaster Provancher. Nat. Can., iv, 378.
nigrifrons Forbes. *perpunctata* Van Duzzee. Ins. Ill., 14, 67.

Chlorotettix Van Duzee.

balli Osborn. Proc. Iowa Acad. Sci., v, 247.
galbanatus Van Duzee. Psyche, vi, 309.
lusorius Osborn and Ball. Proc. Iowa Acad. Sci., iv, 226.
tergatus Fitch. Psyche, vi, 309.
unicolor Fitch. *Ibid.*, vi, 308.
viridius Van Duzee. *Ibid.*, vi, 309.

Jassus Fabricius.

olitorius Say. *subbifasciatus.* Jour. Acad. Nat. Sci. Phila., vi, 301, 1831.

Cicadula Zetterstedt.

sexnotata Fallen. Tenn. State Bd. Ent., Bull. 17, 94.
variata Fallen. *Ibid.*, Bull. 17, 95.

Balclutha Kirkaldy.

impicta Van Duzee. *Gnathodus.* Can. Ent., xxiv, 113.
punctata Thunberg. Me. Agr. Expt. Sta., Bull., 238, 149.

Alebra Fieber.

albostriella Fallen, var. fulveola Herrich-Schæffer. Proc. U. S. Nat. Mus., xx, 713.

Dicraneura Hardy.

mali Provancher. *communis* Gillette. Proc. U. S. Nat. Mus., xx, 718.

Empoasca Walsh.

flavescens Fabricius. Proc. U. S. Nat. Mus., xx, 745.
mali Le Baron. Apple leaf-hopper. Rept. Conn. Agr. Expt. Sta., 1904, 216.
smaragdula Fallen. Proc. U. S. Nat. Mus., xx, 725.
trifasciata Gillette. *Ibid.*, xx, 726.
unica Provancher. *splendida* Gillette. *Ibid.*, xx, 731.

Typhlocyba Germar.

Eupteryx Curtis.

flavoscuta Gillette. Proc. U. S. Nat. Mus., xx, 749.
melissæ Curtis. *collina* Flor. Bull. Buff. Soc. Nat. Sci., x, 511.
nigra Osborn. Ohio State Univ., Bull. 22, 543.

Empoa Fitch.

Typhlocyba Sahlberg.

fabæ Harris. Ins. Inj. Veg., 230.
lethierryi Edwards. Me. Agr. Expt. Sta., Bull., 238, 157.
querci Fitch. Proc. U. S. Nat. Mus., xx, 766.
querci Fitch, var. gilletti Van Duzee. *bifasciata.* Me. Agr. Expt. Sta., Bull., 238, 157.
rosæ Linnæus. Rose leaf-hopper, Proc. U. S. Nat. Mus., xx, 771.
ulmi Linnæus. Proc. U. S. Nat. Mus., xx, 769.

Erythroneura Fitch.

comes Say. Grape leaf-hopper. Proc. U. S. Nat. Mus., xx, 759.
comes var. maculata Gillette. *Ibid.*, xx, 764.
obliqua Say. *Ibid.*, xx, 756.
vulnerata Fitch. *Ibid.*, xx, 764.

Family MEMBRACIDÆ.

Campylenchia Stål.

latipes Say. *curvata* Stål. Bull. Buff. Soc. Nat. Sci., ix, 111.

Enchenopa Amyot and Serville.

binotata Say. Bull. Buff. Soc. Nat. Sci., ix, 112.

Ceresa Amyot and Serville.

albescens Van Duzee. Bull. Buff. Soc. Nat. Sci., ix, 35. (W.E.B.)
basalis Walker. *turbida*. Bull. Buff. Soc. Nat. Sci., ix, 33, 39.
borealis Fairmaire. *Ibid.*, ix, 34, 38.
brevicornis Fitch. *Ibid.*, ix, 34, 40.
brevis Walker. *Ibid.*, ix, 34, 40.
bubalus Fabricius. Buffalo tree-hopper. Insect Book, Pl. xxvii, 18; Bull. Buff. Soc. Nat. Sci., ix, 33, 36.
constans Walker. Bull. Buff. Soc. Nat. Sci., ix, 37. (L.B.W.)
diceros Say. *Ibid.*, ix, 33, 35.
palmeri Van Duzee. *Ibid.*, ix, 38. (L.B.W.)
taurina Fitch. *Ibid.*, ix, 34, 37.

Stictocephala Stål.

inermis Fabricius. Bull. Buff. Soc. Nat. Sci., ix, 44.
lutea Walker. *Ibid.*, ix, 43, 49.

Micrutalis Fowler.

calva Say. Bull. Buff. Soc. Nat. Sci., ix, 53.
dorsalis Fitch. *Ibid.*, ix, 53. (L.B.W.)

Carynota Fitch.

mera Say. Bull. Buff. Soc. Nat. Sci., ix, 55, 56.
porphyrea Fairmaire. *Ibid.*, ix, 56, 57.
stupida Walker. *muskokensis* Goding. *Ibid.*, ix, 56.

Thelia Amyot and Serville.

bimaculata Fabricius. Bull. Buff. Soc. Nat. Sci., ix, 57.

Glossonotus Butler.

acuminatus Fabricius. Bull. Buff. Soc. Nat. Sci., ix, 58, 59.
cratægi Fitch. *Ibid.*, ix, 58, 59.
godingi Van Duzee. *Ibid.*, ix, 58, 59.
univittata Harris. *Ibid.*, ix, 58.

Telamona Fitch.

ampelopsidis Harris. Bull. Buff. Soc. Nat. Sci., ix, 63, 68.
barbata Van Duzee. *Ibid.*, ix, 62, 65. (L.B.W.)
coryli Fitch. *Ibid.*, ix, 63, 68.
declivata Van Duzee. *Ibid.*, ix, 61, 64.
decorata Ball. Proc. Wash. Biol. Soc., xvi, 179. (I.W.D.)
dubiosa Van Duzee. *irrorata*. Bull. Ill. St. Lab. Nat. Hist., iii, 418. (L.B.W.)
extrema Ball. Bull. Buff. Soc. Nat. Sci., ix, 64, 71. (M.P.Z.)
maculata Van Duzee. *Ibid.*, ix, 63, 72.
querci Fitch. *Ibid.*, ix, 62, 67.
reclivata Fitch. *Ibid.*, ix, 62, 67. (D.J.C.)
sinuata Fowler. *Ibid.*, ix, 63, 69. (L.B.W.)
subfalcata Van Duzee. *Ibid.*, x, 509. (L.B.W.)
tristis Fitch. *coryli*. *Ibid.*, ix, 63, 68. (H.L.V.)
unicolor. Fitch. *Ibid.*, ix, 64, 71.

Smilia Germar.

camelus Fabricius. Bull. Buff. Soc. Nat. Sci., ix, 74.
camelus var. viridis Goding. Bull. Ill. State Lab. Nat. Hist., iii, 426.
sp.

Cyrtolobus Goding.

cinctus Van Duzee. Bull. Buff. Soc. Nat. Sci., ix, 80, 86. (L.B.W.)
cinereus Emmons. *Ibid.*, ix, 81, 91.
discoidalis Emmons. *Ibid.*, ix, 80, 90. (L.B.W.)
fenestratus Fitch. *Ibid.*, ix, 79, 81.
fuliginosus Emmons. *Ibid.*, ix, 79, 82.
fuscipennis Van Duzee. *Ibid.*, ix, 81, 91. (L.B.W.)
inermis Emmons. *Ibid.*, ix, 81, 90. (Q.S.L.)
intermedius Emmons. *Ibid.*, ix, 80, 90. (L.B.W.)
maculipennis Emmons. *Ibid.*, ix, 81, 89. (L.B.W.)
muticus Fabricius. *trilineatus* Say. *Xantholobus*. *Ibid.*, ix, 96.
ovatus Van Duzee. *Ibid.*, ix, 96.
sculptus Fairmaire. Ibid., ix, 79, 85. (L.B.W.)
tuberosus Fairmaire. *Ibid.*, ix, 79, 84. (L.B.W.)
vau Say. *Ibid.*, ix, 80, 87.

Atymna Stål.

castaneæ Fitch. Bull. Buff. Soc. Nat. Sci., ix, 92, 93.
inornata Say. *Ibid.*, ix, 92, 93. (L.B.W.)
querci Fitch. *Ibid.*, ix, 92, 93.

Xantholobus Van Duzee.

muticus Fabricius. *trilineatus* Say. Bull. Buff. Soc. Nat. Sci., ix, 96.

Ophiderma Fairmaire.

flava Goding. Bull. Buff. Soc. Nat. Sci., ix, 98, 100.
flavicephala Goding. Insect Life, v, 92. (M.P.Z.)
flaviguttula Goding. Bull. Ill. State Lab. Nat. Hist., iii, 438.
flaviguttula var. **definita** Woodruff. Jour. N. Y. Ent. Soc., xxvii, 259. (L.B.W.)
grisea Woodruff. *Ibid.*, xxvii, 254. (L.B.W.)
pubescens Emmons. Bull. Buff. Soc. Nat. Sci., ix, 99.
salamandra Fairmaire. *Ibid.*, ix, 98, 99.

Vanduzea Goding.

arcuata Say. Bull. Buff. Soc. Nat. Sci., ix, 102. (L.B.W.)

Entylia Germar.

bactriana Germar. *carinata*. Bull. Buff. Soc. Nat. Sci., ix, 105.

Publilia Stål.

concava Say. Bull. Buff. Soc. Nat. Sci., ix, 106.

Family CERCOPIDÆ.

Monecphora Amyot and Serville.

Tomaspis Stål.

bicincta Say var. **ignipecta** Fitch. Ins. N. Y., iii, 71, in Rept. Agr. Soc., 389.

Aphrophora Germar.

parallela Say. *Cercopis*. Compl. Writ., i, 202.
quadrinotata Say. Compl. Writ., ii, 381.
saratogensis Fitch. Cat. Homop. N. Y., 53, 710.

Lepyronia Amyot and Serville.

quadrangularis Say. Compl. Writ., ii, 256.

Philænus Stål.

lineatus Linnæus. Rept. N. Y. State Ent., iv, 240.

Philaronia Ball.

bilineata Say. *americanus* Baker. Can. Ent., xxix, 112.

Clastoptera Germar.

obtusa Say var. **obtusa** Ball. Compl. Writ., ii, 256.
obtusa var. **achatina** Germar. Cat. Homop. N. Y., 53.
proteus Fitch. Cat. Homop. N. Y., 54, 722.
proteus var. **saint-cyri** Provancher. Nat. Can., iv, 351.
proteus var. **pini** Fitch. Cat. Homop. N. Y., 53.

Family CICADIDÆ.

Tibicen Latreille.

auletes Germar. Large dog day harvest fly, Jour. N. Y. Ent. Soc., xxiii, 2.
canicularis Harris. Dog day harvest fly, Ent. News, xviii, 126.
linnei Smith and Grossbeck. Ent. News, xviii, 127.
lyricen DeGeer. *fulvula* Osborn. *Ibid.*, xviii, 125.
lyricen var. **englehardti** Davis. *Ibid.*, xxi, 457.
sayi Smith and Grossbeck. *Ibid.*, xviii, 124.

Tibicina Kollar.

septendecim Linnæus. Seventeen year locust or periodical cicada. Bur. Ent., Bull. 71; Rept. Conn. Agr. Expt. Sta., 1911, 296.

Family PSYLLIDÆ.

Livia Latreille.

maculipennis Fitch. Psyche xix, 6.
marginata Patch. *Ibid.*, xix, 8.
vernalis Fitch. *Diraphia.* Rept. Ins. N. Y., iv, 53: Psyche, xix, 7.

Aphalara Fœrster.

veaziei Patch. Me. Agr. Expt. Sta., Bull. 187, 16.

Trioza Fœrster.

tripunctata Fitch. Rept. N. Y. State Ent., ix, 404.

Calophya Fr. Loew.

flavida Schwarz. Proc. Wash. Ent. Soc., vi, 243.
nigripennis Riley. *Ibid.*, vi, 244.

Pachypsylla Riley.

celtidis-gemma Riley. Proc. Wash. Biol. Soc., ii, 74.
celtidis-mamma Riley. *Ibid.*, ii, 73.
celtidis-vesiculum Riley. Am. Mus. Jour., iv, 35.
venusta Osten Sacken. Proc. Wash. Biol. Soc., ii, 72.

Spanioneura Fœrster.

fonscolombii Fœrster.[1] Verh. Zool-Bot. Ges. Wien., 1879, pl. ix, 26.

Psylla Geoffroy.

annulata Fitch. U. S. Nat. Mus., Bull. 85, 152. (W. C. W.)
buxi Linnæus. Verh. Zool-Bot. Ges. Wien., 1881, 169.
floccosa Patch. Can. Ent., xli, 301.
galeaformis Patch. Me. Agr. Expt. Sta., Bull. 187, 12.
pyricola Fœrster. *pyri.* Pear psylla. Rept. Conn. Agr. Expt. Sta., 1903, 262.
striata Patch. Me. Agr. Expt. Sta., Bull. 187, 14.

Psyllopsis Fr. Loew.

fraxinicola Fœrster. U. S. Nat. Mus., Bull. 85, 132: Rept. N. Y. State Ent., xxvi, 39.

[1]This species on *Buxus sempervirens* has not been identified with certainty.

Family APHIDIDÆ.

Longistigma Wilson.

caryæ Harris. *Lachnus caryæ, L. longistigma* Monell, *L. platanicola* Riley. Can. Ent., 41, 385.

Ancœcia Koch.

corni Fabricius. *Aphis. Schizoneura panicola* Thomas. U. S. Dept. Agr., Div. Ent., Bull. 22, 32.

Todolachnus Matsumura.

pinicola Kaltenbach. *abietis.* Fitch. 5th Rept. U. S. Ent. Com., 853.
strobi Fitch. Me. Agr. Expt. Sta. Bull. 202, 167.

Calaphis Walsh.

betulæcolens Fitch. *Callipterus.* Aphid. Minn., 43.
castaneæ Fitch. *Ibid.*, 44.

Callipterinella van der Goot.

annulata Koch. *Chaitophorus.* Jour. Econ. Ent., 10, 427.

Euceraphis Walker.

betulæ Koch. *Callipterus.* Jour. Econ. Ent., 10, 425.
mucida Fitch. *Callipterus. Ibid.*, 425.

Monellia Oestlund.

caryæ Monell. *Callipterus.* U. S. Dept. Agr., Bull. 100, 19.
castalis Fitch. Jour. Econ. Ent., 10, 424.

Myzocallus Passerini.

discolor Monell. *Callipterus.* Aphid. Minn., 41.
punctatellus Fitch. *Aphis.* Jour. Econ. Ent., 10, 420.
ulmifolii Monell. *Callipterus.* Aphid. Minn., 42.

Therioaphis Walker.

tilliæ Linnæus. *Aphis.* Ann. Ent. Soc. Am., 2, 33.

Chaitophorus Koch.

nigræ Oestlund. *cordata* Williams. Jour. Econ. Ent., 429.
viminalis Monell. *stevensis* Sanborn. Aphid. Minn., 40.

Neothomasia Baker.

bruneri Williams. *Chaitophorus.* Univ. Studies, Lincoln, Neb., 11, No. 3, reprint 6.
populicola Thomas. Me. Agr. Expt. Sta., Bull. 213, 78.

Periphyllus Van der Hoven.

americanus Baker. Jour. Econ. Ent., 10, 428.
lyropicta Kessler. *Ibid.*, 10, 428.

Drepanaphis Del Guercio.

acerifoliæ Thomas. *Siphonophora. Drepanosiphum.* Kan. Univ. Sci., Bull., 3, 45.

Drepanosiphum Koch.

platanoides Schrank. *Aphis.* Jour. Econ. Ent., 2, 346.

Phyllaphis Koch.

fagi Linnæus. Beech aphid. Aphid. Minn., 32.

Melanoxantherium Schouteden.

media Baker. Jour. Econ. Ent., 10, 431.
smithiæ Monell. *Melanoxanthus.* Jour. Econ. Ent., 2, 387.

Aphis Linnæus.

cardui Linnæus. *pruni. prunifoliæ.* Me. Agr. Expt. Sta., Bull. 233, 263.

cerasifoliæ Fitch. Choke-cherry aphid. *Ibid.*, 262.

davisi Patch. Jour. Econ. Ent., 10, 418. (N. N. for *Aphis populifoliæ* Fitch of Davis, 1910.)

folsomi Davis. Ent. News, 19, 145.

gossypii Glover. *malvæ* Koch., *cucurbiti* Buckton. Melon aphid. Rept. Conn. Agr. Expt. Sta., 1908, 813.

laburni Kaltenbach. Afid. Ital., 125.

maidi-radicis Forbes. Corn root aphid. Bur. Ent., Bull. 85, 97.

maidis Fitch. Bur. Ent., Tech. Ser., 12, 144.

nerii Boyer. Oleander aphid. Pom. Jour. Ent., iii, 530.

persicæ-niger Smith. Black peach aphid. Jour. Econ. Ent., i, 308.

pomi DeGeer. Green apple aphid. Rept. Conn. Agr. Expt. Sta., 1903, 259.

pseudobrassicæ Davis. Turnip aphid. *Ibid.*, 1916. Texas Agr. Expt. Sta., Bull. 180; Rept. Conn. Agr. Expt. Sta., 1916, 98.

rumexicolens Patch. Jour. Econ. Ent., 10, 417.

rumicis Linnæus. Bean aphid. Aphid. Minn., 61.

saliceti Kaltenbach. Jour. Econ. Ent., 10, 417.

sanborni Patch. Me. Agr. Expt. Sta., Bull. 225, 52.

spiræcola Patch. *spiræella* Gillette. Me. Agr. Expt. Sta., 233, 270.

viburniphila Patch. Jour. Econ. Ent., 10, 416.

yuccæ Cowen. *yucciola* Williams. Yucca aphid. Hemip. Col., 122.

Anuraphis Del Guercio.

malifoliæ Fitch. *sorbi* Kaltenbach. Rosy apple aphid. Rept. Conn. Agr. Expt. Sta., 1909, 343; Thirteenth Rept. Del. Agr. Expt. Station, 1900, 149.

tulipæ Boyer. *Aphis gladioli* Felt. Rept. N. Y. State Ent., 24, 19.

Brevicoryne Das.

brassicæ Linnæus. Cabbage aphid. Ins. Life, iii, 289; Cornell Univ. Agr. Expt. Sta., Bull. 300.

Hyalopterus Koch.

arundinis Fabricius. *Aphis pruni.* Jour. Econ. Ent., 2, 354.

Rhopalosiphum Koch.

nymphææ Linnæus. *Aphis. butoni. aquaticus. prunorum.* Science, 42, 164. Me. Agr. Expt. Sta., Bull. 233, 263.
prunifoliæ Fitch. (*avenæ* in part) Aphid. Minn., 65.
serotinæ Oestlund. *Ibid.*, 76.

Siphocoryne Passerini.

xylostei Schrank. *Aphis.* Afid. Ital., 142.

Amphorophora Buckton.

rhois Monell. Aphid. Minn., 75.

Myzus Passerini.

braggii Gillette. *Capitophorus.* Jour. Econ. Ent., 8, 375.
cerasi Fabricius. *Aphis.* Cherry aphid. Aphid. Minn., 73; Me. Agr. Expt. Sta., Bull. 233, 258.
persicæ Sulzer. Green peach aphid. Ins. N. Y., iii, 359.
ribis Linnæus. Currant aphid. Aphid. Minn., 74.
rosarum Kaltenbach. Me. Agr. Expt. Sta., Bull. 233, 269.
violæ Pergande. *Rhopalosiphum.* Violet aphid. Can. Ent., xxxii, 29.

Macrosiphum Passerini.

albifrons Essig. Pom. Jour. Ent., 3, 543.
cratægi Monell. *Siphonophora cratægi.* Me. Agr. Expt. Sta., Bull. 233, 255.
granarium Kirby. Jour. Econ. Biol., viii, 58.
illinoiensis Shimer. Science 41, 834.
lilii Monell. *Siphonophora.* Rept. U. S. Entomologist, 1879, 220.
liriodendri Monell. Ins. Ill., 8, 189; Jour. Econ. Ent., 4, 383.
luteola Williams. *Siphonophora.* University Studies, Lincoln, Nebraska, 11, No. 3, reprint 31.
pisi Kaltenbach. U. S. Rept. Agr., Bull. 276.
rosæ Linnæus. *Aphis rosæ.* Me. Agr. Expt. Sta., Bull. 233, 268.
rudbeckiæ Fitch. *Nectarophora rudbeckiæ.* Proc. Ent. Soc. Phila., i, 298; Jour. Econ. Ent., 4, 383.
sanborni Gillette. *Siphonophora chrysanthemicolens* Williams. Can. Ent., xl, 65.
solanifolii Ashmead. *Siphonophora.* Can. Ent., xiv, 92; Me. Agr. Expt. Sta., Bull. 242.

sonchi Linnæus. *Aphis sonchi.* Jour. Econ. Biol., viii, 64.
tanaceti Linnæus. *Aphis tanaceti.* Ins. Ill., viii, 68. Jour. Econ. Ent., 4, 382.

Eriosoma Leach.

americana Riley. *Schizoneura* Hartig. Me. Agr. Expt. Sta., Bull. 241; Bull. 256, 340 (Key). Jour. Agr. Research, 6, 359.
lanigera Hausman. Woolly apple aphid. Bur. Ent., U. S. Dept. Agr., Rept. No. 101; Me. Agr. Expt. Sta., Bull. 256.
lanuginosa Hartig. Me. Agr. Expt. Sta., Bull. 256, 340 (Key).
rileyi Thomas. Me. Agr. Expt. Sta., Bull. 256, 340 (Key).
ulmi Linnæus. Jour. Agr. Research, 6, 359; Me. Agr. Expt. Sta., Bull. 256, 340 (Key).

Tetraneura Hartig.

graminis Monell. *colophoidea* Howard. *ulmicola* Gillette.

Asiphum Koch.

pseudobyrsa Walsh. Ent. News, 25, 269.

Prociphilus Koch.

approximatus Patch. Jour. Econ. Ent., 10, 418.
corrugatans? Sirrene. Jour. Agr. Research, 5, 1117.
imbricator Fitch. Woolly beech aphid.
tessellata Fitch. *Schizoneura acerifolii.* "Alder blight." Jour. Econ. Ent., ii, 35.

Neoprociphilus Patch.

aceris Monell. Jour. Agr. Research, 5, 1117.

Thecabius Koch.

populi-condupliformis Cowen. *patchii* Gillette. Hemip. Col., 115.

Pemphigus Hartig.

populicaulis Fitch. Me. Agr. Expt. Sta., Bull. 213, 77.

Hormaphis Osten Sacken.

hamamelidis Fitch. Aphid. Minn., 24; Bur. Ent., Tech. Series, No. 9, 9.

Hamamelistes Shimer.

spinosus Shimer. *papyraceæ.* Aphid. Minn., 19; Bur. Ent., Tech. Series, No. 9, 25.

Chermes Linnæus.

abietis Kaltenbach. Spruce gall aphid. Rept. Conn. Agr. Expt. Sta., 1906, 302; Me. Agr. Expt. Sta., Bull. 173.
cooleyi Gillette. Proc. Acad. Nat. Sciences Phila., 1907, reprint, 3-14.
pinicorticis Fitch. Pine bark aphid. Ins. Aff. Park & Wood. Trees, 192.
pinifoliæ Fitch. *abieticolens.* Me. Agr. Expt. Sta., Bull. 173.
strobilobius Kaltenbach. Woolly larch aphid. Ins. Aff. Park & Wood. Trees, 187.

Phylloxera Boyer.

caryæcaulis Fitch. Hickory gall aphid. Ins. Aff. Park and Wood. Trees, 331; Proc. Davenport Acad. Sci., 9, 243.
castaneæ Haldeman. Proc. Davenport Acad. Sci., 9, 257.
foveola Pergande. *Ibid.*, 9, 188.
rimosalis Pergande. *Ibid.*, 9, 216.
vastatrix Planchon. Grape phylloxera. Insects and Insecticides, 1st ed. 109.

Family ALEYRODIDÆ.

Aleurochiton Tullgren.

forbesii Ashmead. *Aleurodes aceris* Forbes. Bur. Ent., Tech. Ser. 27, 88.

Aleyrodes Latreille.

asarumis Shimer. *acteæ* Britton. Ent. News, xvi, 65.
fernaldi Morrill. Psyche, x, 83.

Trialeurodes Cockerell.

Asterochiton Quaintance and Baker.
Aleyrodes.

coryli Britton. Ent. News, xviii, 337.
morrilli Britton. *Ibid.*, xviii, 340.
packardi Morrill. Can. Ent., xxxv, 25.
vaporariorum Westwood. Greenhouse white fly. Rept. Conn. Agr. Expt. Sta., 1902, 148.
waldeni Britton. Ent. News, xviii, 339.

Tetraleurodes Cockerell.

mori Quaintance, var. **maculata** Morrill. Psyche, x, 81.

Family COCCIDÆ.

Orthezia Bosc d'Antic.

insignis Douglas. Greenhouse orthezia. Rept. Conn. Agr. Expt. Sta., 1905, 235.

Asterolecanium Targioni-Tozzetti.

variolosum Ratzeburg. Pit-making oak scale. Rept. Conn. Agr. Expt. Sta., 1905, 235.

Kermes Boitard.

kingii Cockerell. Ohio Acad. Sci., iv, part 2, 36.
pubescens Bogue. *Ibid.*, iv, part 2, 37.
sassceri King. Jour. Ent. Zool., vi, 48.
waldeni King. Jour. Econ. Ent., vii, 150.

Gossyparia Signoret.

spuria Modeer. *ulmi.* Elm scale. Rept. Conn. Agr. Expt. Sta., 1905, 235.

Eriococcus Targioni-Tozzetti.

azaleæ Comstock. Cornell Agr. Expt. Sta., Bull. 372, 487.

Phenacoccus Cockerell.

acericola King. Woolly maple leaf scale. Rept. Conn. Agr. Expt. Sta., 1905, 226.

Pseudococcus Westwood.

adonidum Linnæus. *Dactylopius longispinus.* Long-tailed mealy bug. Jour. Econ. Ent., ii, 431.
citri Risso. *Dactylopius destructor.* Common or short-tailed mealy bug. Rept. Conn. Agr. Expt. Sta., 1905, 236.

Eriococcus Targioni-Tozzetti.

vitis Linnæus. *innumerabilis.* Cottony maple scale. Jour. Econ. Ent., ii, 433.

Coccus Linnæus.

hesperidum Linnæus. *Lecanium.* Soft brown scale. In greenhouses. Jour. Econ. Ent., ii, 436.

Toumeyella Cockerell.

liriodendri Gmelin. *Eulecanium tulipiferæ.* Tulip tree scale. Rept. Conn. Agr. Expt. Sta., 1905, 239; Jour. Econ. Ent., ii, 447.

Lecanium Burmeister.

caryæ Fitch. Hickory Lecanium. Jour. Econ. Ent., ii, 442.

corni Bouché. *armeniacum, canadense, cerasifex.* European fruit lecanium. Jour. Econ. Ent., ii, 443; Rept. Conn. Agr. Expt. Sta., 1905, 237.

nigrofasciatum Pergande. Terrapin scale. Rept. Conn. Agr. Expt. Sta., 1905, 238.

Saissetia Deplanches.

hemisphærica Targioni-Tozzetti. *filicum.* Hemispherical scale. Rept. Conn. Agr. Expt. Sta., 1905, 239.

Physokermes Targioni-Tozzetti.

piceæ Schrank. Spruce scale. Can. Ent., 49, 317.

Chionaspis Signoret.

americana Johnson. White elm scale. Rept. Conn. Agr. Expt. Sta., 1905, 239.

caryæ Cooley. Mass. Agr. Expt. Sta., Spec. Bull., 1899, 40.

corni Cooley. *Ibid.*, Spec. Bull., 1899, 15.

euonymi Comstock. Euonymus scale. Rept. Conn. Agr. Expt. Sta., 1905, 240.

furfura Fitch. *harrisii.* Scurfy scale. *Ibid.*, 1903, 227.

lintneri Comstock. Mass. Agr. Expt. Sta., Spec. Bull., 1899, 22.

pinifoliæ Fitch. Pine leaf scale. Rept. Conn. Agr. Expt. Sta., 1905, 240.

Hemichionaspis Cockerell.

aspidistræ Signoret. In greenhouses. Mass. Agr. Expt. Sta., Spec. Bull., 1899, 45.

Diaspis Costa.

boisduvalii Signoret. In greenhouses. Ohio Acad. Sci., 1904, 52.

carueli Targioni-Tozzetti. Juniper scale. Rept. U. S. Dept. Agr., 1880, 310.

echinocacti Bouché, var. cacti Comstock. In greenhouses. Cornell Agr. Expt. Sta., Bull. 372, 552.

piricola Del Guercio. *Epidiaspis.* European pear scale. Ent. News, xi, 590.

Aulacaspis Cockerell.

pentagona Targioni-Tozzetti. West Indian peach scale. Rept. Conn. Agr. Expt. Sta., 1913, 240.

rosæ Bouché. *Diaspis.* Rose scale. *Ibid.,* 1905, 241.

Leucaspis Targioni-Tozzetti.

japonica Cockerell. Psyche, viii, 53.

Aspidiotus Bouché.

abietis Schrank. Hemlock leaf scale. 5th Rept. U. S. Ent. Com., 878.

ancylus Putnam. Putnam's scale. Ohio Acad. Sci., 1904, 57.

cyanophylli Signoret. In greenhouses. *Ibid.,* 1904, 59.

forbesi Johnson. Cherry scale. Bull. Ill. State Lab. Nat. Hist., iv, 380.

hederæ Vallot. *nerii.* White scale. Oleander scale. In greenhouses. Rept. Conn. Agr. Expt. Sta., 1905, 242.

osborni Newell and Cockerell. Proc. Iowa Acad. Sci., v, 229.

ostreæformis Curtis. European fruit scale. Bur. Ent., Bull. 20, 76.

perniciosus Comstock. San José scale. Conn. Agr. Expt. Sta., Bull. 165.

ulmi Johnson. Elm aspidiotus. Bull. Ill. State Lab. Nat. Hist., iv, 388.

Chrysomphalus Ashmead.

aonidum Linnæus. *ficus.* Circular scale. Fig scale. In greenhouses. Rept. Conn. Agr. Expt. Sta., 1905, 243.

aurantii Maskell. Red orange scale. In greenhouses. Ohio Acad. Sci., 1904, 71.

dictyospermi Morgan. Morgan's scale. In greenhouses. Rept. Conn. Agr. Expt. Sta., 1905, 244.

obscurus Comstock. Report U. S. Dept. Agr., 1880, 303.

Lepidosaphes Shimer.

beckii Newman. *Mytilaspis citricola.* Purple scale. In greenhouses. Ohio Acad. Sci., 1904, 73.

newsteadi Sulc. Rept. Conn. Agr. Expt. Sta., 1915, 140.

ulmi Linnæus. *Mytilaspis pomorum.* Oyster-shell scale. *Ibid.,* 1903, 229.

Ischnaspis Douglas.

longirostris Signoret. *filiformis*. Thread scale. In greenhouses. Rept. Conn. Agr. Expt. Sta., 1905, 245.

Parlatoria Targioni-Tozzetti.

pergandii Comstock. Chaff scale. In greenhouses. Ohio Acad. Sci., 1904, 75.

Suborder HETEROPTERA.

Family CORIXIDÆ.

Arctocorixa Wallengren.

alternata Say. Compl. Writ., ii, 251.
compressa Abbott. Wash. Univ. Studies, ii, 81.
compressa var.
interrupta Say. Compl. Writ., ii, 250.
kennicottii Uhler. Trans. Md. Acad., i, 393.
lucida Abbott. Ent. News, xxvii, 341.
nitida Fieber. Bull. Brook. Ent. Soc., viii, 88, 89.
ornata Abbott. Ent. News, xxvii, 341.
scabra Abbott. Bull. Brook. Ent. Soc., viii, 88, 90.
seriata Abbott. Ent. News, xxvii, 342.

Corixa Geoffroy.

verticalis Fieber. Bull. Brook. Ent. Soc., viii, 89, 90.

Family BELOSTOMATIDÆ.

Benacus Stål.

griseus Say. Insect Book, Pl. xxvii, 4.

Lethocerus Mayr.

americanus Leidy. *Belostoma*. Giant water bug. Life Hist. Amer. Insects, 4.
obscurus Dufour. *Belostoma*. Ann. Soc. Ent. France, 1863, 383.

Belostoma Latreille.

flumineum Say. Compl. Writ., i, 364.

Family NEPIDÆ.

Nepa Linnæus.

apiculata Uhler. Proc. Bos. Soc. Nat. Hist., xix, 140.

Ranatra Fabricius.

americana Montandon. *quadridentata* Uhler. Can. Ent., xxxvii, 187; Insect Book, Pl. xxvii, fig. 2 (as *fusca.*).

Family NAUCORIDÆ.

Pelocoris Stål.

femoratus Beauvois. *Naucoris pocyi.* Stand. Nat. Hist., ii, 259.

Family NOTONECTIDÆ.

Notonecta Linnæus.

insulata Kirby. Jour. N. Y. Ent. Soc., xiii, 162. (J.R.T.B.)
irrorata Uhler. Insect Book, Pl. xxvii, 12; Jour. N. Y. Ent. Soc., xiii, 159.
undulata Say. Jour. N. Y. Ent. Soc., xiii, 152.
undulata var. **latona** Kirkaldy.
variabilis Fieber. Jour. N. Y. Ent. Soc., xiii, 155.

Plea Leach.

striola Fieber. Stand. Nat. Hist., ii, 253.

Family SALDIDÆ.

Pentacora Reuter.

hirta Say. *Salda.* Compl. Writ., i, 359.
ligata Say. *Salda. Ibid.,* i, 359.

Salda Fabricius.

coriacea Uhler. Bull. Geol. Geog. Surv. Terr., iii, (2) 436.

Saldula Van Duzee.

confluenta Say. Compl. Writ., i, 361.
interstitialis Say. *Salda.* Compl. Writ., ii, 248.
pallipes Fabricius. *Salda.* Bull. Geol. Geog. Surv. Terr., iii, (2) 446.
reperta Uhler. *Salda. Ibid.,* 446.
saltatoria Linnæus. Act. Soc. Sci. Fenn., xxi, (2) 15.

Family VELIIDÆ.

Microvelia Westwood.

americana Uhler. Hemip. Col., 61.

Family GERRIDÆ.

Gerris Fabricius.

buenoi Kirkaldy. Ent. News, xxii, 246.
canaliculatus Say. Compl. Writ., i, 363.
conformis Uhler. Trans. Am. Ent. Soc., xxxvii, 247.
marginatus Say. Insect Book, Pl. xxix, 38; Compl. Writ., i, 362.
remigis Say. *Ibid.*, Pl. xxvii, 6; Compl. Writ., i, 362.
rufoscutellatus Latreille. Gen. Ins., iii, 134.

Metrobates Uhler.

hesperius Uhler. Proc. Bost. Soc. Nat. Hist., xiv, 108.

Family MIRIDÆ (CAPSIDÆ).

Chlamydatus Curtis.

associatus Uhler. Hayden's Geol. Surv. Mont., 1872, 419.

Campylomma Reuter.

verbasci Meyer. Hemip. Gymn. Eur., I (2), 53.

Apocremnus Fieber.

ancorifer Fieber. *Psallus*. Hemip. Gymn. Eur., I, 104.

Plagiognathus Fieber.

annulatus Uhler. Hemip. Col., 51.
blatchleyi Reuter. Ofv. Finska. Vet. Soc. Forh., liv., Afd., A, No. 7, 61.
confusus Reuter. Act. Soc. Sci. Fenn., xxxvi, (2) 80.
fraternus Uhler. Hemip. Col., 51.
obscurus Uhler. Hayden's Geol. Surv. Mont., 1872, 418 (C.R.E.)
politus Uhler. Hemip. Col., 52 (C.R.E.)

Rhinocapsus Uhler.

vanduzeei Uhler. Trans. Md. Acad., 1890, 82 (E.L.D.).

Microphylellus Reuter.

modestus Reuter. Finsk. Vet. Soc. Forh., Bd. liv., 1912, 62.

Reuteroscopus Kirkaldy.

ornatus Reuter. *Episcopus.* Ofv. Vet. Akad. Forh., 1875, 90.

Lopus Hahn.

decolor Fallen *chrysanthemi.* Hemip. Gymn. Eur., 11, 287.

Macrotylus Fieber.

amœnus Reuter. Nearktische Capsiden, Act. Soc. Sci. Fenn., xxvi, (2) 75.

Halticus Hahn.

citri Ashmead. *uhleri* Gerard. Garden flea hopper. Ent. Amer., iii, 155; Rept. Conn. Agr. Expt. Sta., 1904, 217.

intermedius Uhler. Proc. U. S. Nat. Mus., xxvii, 360.

Strongylocoris Blanchard.

stygicus Say. *Capsus. Stiphrosoma.* Compl. Writ., i, 344.

Pseudoxenetus Reuter.

scutellatus Uhler. *Xenetus.* Trans. Md. Acad., 1890, 80.

Sericophanes Reuter.

noctuans Knight. Ent. News, xxviii, 3; Proc. Iowa Acad. Sci., V, 238.

Orectoderus Uhler.

obliquus Uhler. Bull. U. S. Geol. Sur. Terr., ii, 320.

Ceratocapsus Reuter.

fasciatus Uhler. Bull. U. S. Geol. Surv. Terr., viii, 421 (E.L.D.).

modestus Uhler. *Melinna.* Ent. Amer., iii, 69. (C.R.E.)

pumilus Uhler. *Melinna. Ibid.,* iii, 69. (C.R.E.)

Lopidea Uhler.

cæsar Reuter. Nearktische Capsiden Act. Soc. Sci. Fenn., xxxvi, (2) 72.

heidemanni Knight. Ent. News, xxviii, 456. (H.L.J.)

instabilis Reuter. *Ibid.,* xxxvi, (2) 72.

marginata Uhler. Proc. Cal. Acad. Sci., iv, 249.

media Say. Compl. Writ., i, 341.

reuteri Knight. Ent. News, xxviii, 459. (B.H.W.)

robiniæ Uhler. *Capsus.* Proc. Phila. Ent. Soc., i, 24.

staphyleæ Knight var. **sanguinea** Knight. Ent. News, xxviii, 461. (W.E.B.)

Orthotylus Fieber.

catulus Van Duzee. Proc. Cal. Acad. Sci., (4th ser) VI, 1916, 106.
chlorionis Say. *Ibid.*, 1916, 98.
cruciatus Van Duzee. *Ibid.*, 1916, 119.
flavosparsus Sahlberg. *Ibid.*, 1916, 97; Hemip. Gymn. Eur., 1883, 360.
uniformis Van Duzee. Proc. Calif. Acad. Sci., Ser. 4, vi, 99.

Ilnacora Reuter.

malina Uhler. Bull. U. S. Geol. Surv. Terr., iii, 419.

Hyaliodes Reuter.

vitripennis Say. *Capsus.* Compl. Writ., i, 345.

Dicyphus Fieber.

agilis Uhler. Bull. U. S. Geol. Surv., 1877, 425.
californicus Stål. Freg. Eugenies Resa, Hemip., 1859, 259.
vestitus Uhler. Hemip. Col., 46. (E.L.D.)

Macrolophus Fieber.

separatus Uhler. *Dicyphus.* Proc. Zool. Soc. London, 1893, 194. (C.R.E.)

Cylapus Say.

tenuicornis Say. Compl. Writ., i, 347.

Fulvius Stål.

brunneus Provancher. *Lygus. Pamerocoris anthocoroides.* U. S. Geol. Surv., Bull. iii, 1877, 425.

Monalocoris Dahlbom.

filicis Linnæus. *Cimex.* Syst. Nat., (10) 1758, 443.

Sixeonotus Reuter.

insignis Reuter. Ofv. Vet. Akad. Forh., 1875 (9) 78.

Cimatlan Distant.

catulum Uhler. Proc. Cal. Acad. Sci., (2) iv, 1894, 257.
venatorium Van Duzee. Bull. Buffalo Soc. Nat. Sci., X, 1912, 479.

Camptobrochis Fieber.

grandis Uhler. Ent. Amer., ii, 230.
nebulosus Uhler. Hayden's Geol. Surv. Mont., 1872, 417.

nitens Reuter. Nearktische Capsiden, Act. Soc. Sci. Fenn., xxxvi, (2) 1909, 56. (C.R.E.)
validus Reuter var. cunealis Reuter. Nearktische Capsiden, Act. Soc. Sci. Fenn., xxxvi, 59.

Deræocoris Kirschbaum.

ruber Linnæus. Syst. Nat. Ed. X, 1758, 446.
ruber var danicus Fabricius. Syst. Ent., iv, 181.
ruber var. segusinus Muller. Hemip. Gymn. Eur., V, 32.

Garganus Stal.

fusiformis Say. *Capsus.* Compl. Writ., i, 344, 1859.

Neurocolpus Reuter.

nubilus Say. *Capsus.* Compl. Writ., i, 341, 1859.

Phytocoris Fallen.*

eximius Reuter. Nearktische Capsiden, Act. Soc. Sci. Fenn., xxvi, (2) 23, 1909.
fenestratus Reuter. *Ibid.,* xxvi, (2) 24, 1909.
infuscatus Reuter. *Ibid.,* xxvi, (2) 20. (C.R.E.)
puella Reuter. *Ibid.,* xxvi, (2) 20. (C.R.E.)
puella var. confluens Reuter. *Ibid.,* xxvi, (2) 20. (C.R.E.)
tibialis Reuter. *Ibid.,* xxvi, (2) 20.

Paracalocoris Distant.

scrupeus Say. *Capsus.* Compl. Writ., i, 342, 1859; Ann. Ent. Soc. Am., IX, 368.

Stenotus Jakolevsky.

binotatus Fabricius. *Oncognathus.* Ins. Life, v, 90. (O.H.)

Adelphocoris Reuter.

rapidus (Say) Reuter. *Calocoris.* Compl. Writ., i, 1859, 339.

Dichrooscytus Fieber.

suspectus Reuter. Act. Soc. Sci. Fenn., xxxvi, (2) 37, 1909.

Pœciloscytus Fieber.

basalis Reuter. *sericeus.* Bull. U. S. Geol. Surv., iii, 422, 1875.
venaticus Uhler, var.

* See also appendix.

Pœcilocapsus Reuter.

lineatus Fabricius. *Capsus 4-vittatus.* Four-lined leaf bug. N. Y. (Cornell) Agr. Expt. Sta. Bull., 58; Compt. Writ., i, 339.

Horcias Distant.

dislocatus Say. Het. New Harmony, 21, 1832; Bull. Buffalo Soc. Sci., X, 483.

dislocatus var. affinis Reuter. Nearktische Capsiden, Act. Soc. Sci Fenn., 41.

dislocatus var. goniphorus Say. Compl. Writ., i, 341.

dislocatus var. limbatellus Walker. Nearktische Capsiden, Act. Soc. Sci. Fenn., xxxvi (2), 41.

dislocatus var. nigrita Reuter. *Ibid.*, 41.

dislocatus var. scutellatus Van Duzee. Bull. Buff. Soc. Nat. Sci., x, 484.

Capsus Fabricius.

ater Linnæus. Hemip. Gymn. Eur., v, 1896, 15.

ater var. semiflavus Linnæus. Syst. Nat., Ed. 12, i, 725.

Coccobaphes Uhler.

sanguinareus Uhler. Proc. Bos. Soc. Nat. Hist., xix, 401, 1878.

Tropidosteptes Uhler.

cardinalis Uhler. Proc. Bos. Soc. Nat. Hist., xix, 404, 1878.

Neoborus Distant.

amœnus Reuter var. *Neoborus saxeus.* Proc. Cal. Acad. Sci. (2) iv.

geminus Say. *Capsus.* Compl. Writ., i, 344.

palmeri Reuter. Bemerk. u. Nearktische Capsiden, 1909, 49.

Xenoborus Reuter.

pettiti Reuter. Nearktische Capsiden, Act. Soc. Sci. Fenn., 50

Lygidea Reuter.

mendax Reuter. N. Y. (Cornell) Agr. Expt. Sta., Bull. 291.

Lygus Hahn.

belfragei Reuter. Ofv. Vet. Acad. Forh., 1875, 71.

caryæ Knight. N. Y. (Cornell) Agr. Expt. Sta., Bull. 391, 615. (B.H.W.)

caryæ var. subfuscus Knight. *Ibid.*, 616.

campestris Linnæus. *Orthops scutellatus.* Bull. U. S. Geol. Sur. Terr., iii, 420, 1877; Hemip. Gymn. Eur., v, 79.

communis Knight. Can. Ent. xlviii, 346.

fasciatus Reuter. Ofv. Vet. Akad. Forh., 1875, 72. (L.B.W.)

hirticulus Van Duzee. *tenellus.* N. Y. (Cornell) Agr. Expt. Sta., Bull. 391, 633.

inconspicuus Knight. *Ibid.,* 612. (B.H.W.)

invitus Say. *Capsus.* dark var. Compt. Writ., i, 1859, 345.

johnsoni Knight. N. Y. (Cornell) Agr. Expt. Sta., Bull. 391, 629. (C.W.J.)

olivaceus Reuter. Ofv. Finska Vet. Soc. Forh., lxix, 1907, 7.

omnivagus Knight. N. Y. (Cornell) Agr. Expt. Sta., Bull. 391, 627.

nyssæ Knight. Bull. Brook. Ent. Soc., xiii, 43.

pabulinus Linnæus. Hemip. Gymn. Eur., v, 114.

pabulinus var. **signifer** Reuter. Nearktische Capsiden, Act. Soc. Sci. Fenn., xxxvi, 1909, 42.

pratensis Linnæus. Tarnished plant bug. Rept. Conn. Agr. Expt. Sta., 1904, 218.

pratensis var. **oblineatus** Say. N. Y. (Cornell) Agr. Expt. Sta., Bull., 391, 564.

rubicundus (Uhler) Reuter. Hemip. Gymn. Eur., v, 72.

tiliæ Knight. N. Y. (Cornell) Agr. Expt. Sta., Bull. 391, 613. (H.L.V.)

vanduzeei Knight var. **rubroclarus** Knight. *Ibid.,* Bull. 391, 567.

viburni Knight. *Ibid.,* 609. (B.H.W.)

vitticollis Reuter. *monachus.* Bur. Ent., Bull. 13, old ser., 63.

Platytylellus Reuter.

confraternus Uhler. *Resthenia.* Hayden's Surv. Terr. Rept. for 1871, 411.

insignis Say. *Capsus.* Compl. Writ., i, 1859, 342.

insitivus Say. *Capsus. Ibid.,* i, 1859, 340.

Trigonotylus Fieber.

brevipes Jakolevsky. Act. Soc. Sci. Fenn., xxxvi, (2) 1909, 6. (C.R.E.)

ruficornis Fourcroy. Ent. Paris, 1785, 209; Fallen, Hem. Suec., 1829, 133.

tarsalis Reuter. *Callimiris.* Act. Soc. Sci. Fenn., xxxvi, (2) 1909, 6.

uhleri Reuter. *Callimiris.* Ofv. Vet. Akad. Forh., 1875, 60.

Stenodema Laporte.

trispinosum Reuter. *Brachytropis calcaratus.* Nearktische Capsiden, Act. Soc. Fenn., xxxvi (2) 1909, 4.

vicinum Provancher. *Miris instabilis. affinis.* Rept. Geol. Geog. Surv., v, 1875, 836.

Miris Fabricius.

dolobratus Linnæus. Hayden's Geol. Surv. Mont., 1872, 409.

Mesomiris Reuter.

curtulus Reuter. Nearktische Capsiden, Act. Soc. Sci. Fenn., xxxvi, 5.

Collaria Provancher.

meilleurii Provancher. *Nabidea coracina.* Nat. Can., iv, 1872, 79.

oculata Reuter. *Trachelomiris.* Ofv. Vet. Akad. Forh., 1875 (9) 61.

Family ANTHOCORIDÆ.

Xylocoris Dufour.

Piezostethus Fieber.

cursitans Fallen. Ofv. Vet. Akad. Forh., 1871, 411.

sordidus Reuter. *Ibid.,* 560. (J.R.T.B.)

Triphleps Fieber.

insidiosa Say. Compl. Writ., i, 357.

Family CIMICIDÆ.

Cimex Linnæus.

lectularius Linnæus. Bed bug. Bur. Ent., Bull. 4, new series, 32.

Œciacus Stål.

vicarius Horvath. Barn swallow bug. Insect Book, 288; Bur. Ent., Bull. 5, new series, 161.

Family NABIDÆ.

Pagasa Stål.

fusca Stein. Berl. Ent. Zeit., i, 90.

Nabis Latreille.

Reduviolus Kirby.

annulatus Reuter. Ofv. Vet. Akad. Forh., xxix, 86.
ferus Linnæus. *Coriscus.* Syst. Nat., Ed. 10, 449.
inscriptus? Kirby. *Coriscus.* Can. Ent., x, 213.
roseipennis Reuter. *Coriscus.* Ofv. Vet. Akad. Forh., 1872, 87. (H.W.W.)
rufusculus Reuter. *Coriscus. Ibid.*, 92.
subcoleoptratus Kirby. *Coriscus.* Insect Book, Pl. xxix, 30.

Family MESOVELIIDÆ.

Mesovelia Mulsant and Rey.

mulsanti White. *bisignata.* Stand. Nat. Hist., ii, 273 (H.L.V.)

Family HEBRIDÆ.

Hebrus Curtis.

concinnus Uhler. *Nœogeus.* Proc. Zool. Soc., Lond., 1894, 221.

Family REDUVIIDÆ.

Ploiaricola Reuter.

tuberculata Banks. *Ploiariodes.* Psyche, xvi, 46.

Emesa Fabricius.

brevipennis Say. (*longipes* DeGeer, preoccupied.) Compl. Writ., i, 106.

Barce Stål.

annulipes Stål. Enum. Hemip., iii, 127.

Pygolampis Germar.

pectoralis Say. *Reduvius.* Compl. Writ., i, 306.

Reduvius Fabricius.

personatus Linnæus. Bur. Ent., Bull. 22, 24. (D.J.C.)

Melanolestes Stål.

abdominalis Herrich-Schæffer. Insect Book, Pl. xxxi, 38.
picipes Herrich-Schæffer. *Ibid.*, Pl. xxxi, 39.

Apiomerus Hahn.

crassipes Fabricius. Insect Book, Pl. xxix, 20.

Zelus Fabricius.

audax Banks. Ent. News, xxi, 325.
exsanguis Stål. *luridus*. Insect Book, Pl. xxix, 22; Stett. Ent. Zeit., 1862, 452.

Pselliopus Bergroth.

Milyas Stål.

cinctus Fabricius. Insect Book, Pl. xxxi, 43.

Fitchia Stål.

aptera Stål. Ofv. Vt. Akad. Forh., 1859, 371

Acholla Stål.

multispinosa DeGeer. Mem. Ins., iii, 23.

Sinea Amyot and Serville.

diadema Fabricius. Insect Book, Pl. xxxi, 44; Jour. N. Y. Ent. Soc. ix, 3.
spinipes Herrich-Schæffer. Enum. Hemip., ii, 71. (L.B.W.)

Family PHYMATIDÆ.

Phymata Latreille.

erosa Linnæus. Insect Book, 297.
erosa var. fasciata Gray. Griffith's Animal Kingdom, xv, 242. (E.L.D.)
erosa var. wolfii Stål. *pennsylvanica* Handlirsch. Insect Book, Pl. xxxi, 36.
vicina Handlirsch. Bull. Buff. Soc. Nat. Sci. ix, 174.

Family PIESMIDÆ.

Piesma Lepeletier and Serville.

cinera Say. *Tingis*. Compl. Writ., i, 349.

Family TINGIDÆ.

Corythucha Stål.

arcuata Say. *Tingis.* Insect Book, 299; Compl. Writ., i, 350.
ciliata Say. *Tingis.* Compl. Writ., 1, 349.
cratægi Osborn and Drake. Bull. Ohio St. Univ., xx, 229.
juglandis Fitch. *Tingis.* Insects N. Y., iii, 466.
marmorata Uhler. *Tingis.* Proc. Bos. Soc. Nat. Hist., xix, 415.
pallipes Parshley. Trans. Am. Ent. Soc., xliv, 82. (H.M.P.)
pergandei Heidemann. Proc. Wash. Ent. Soc., viii, 10.

Leptobyrsa Stål.

rhododendri Horvath. *explanata* Heidemann. Proc. Wash. Ent. Soc., x, 105.

Gargaphia Stål.

angulata Heidemann. Can. Ent., xli, 301.
tiliæ Walsh. Proc. Ent. Soc. Phila., iii, 408. (L.B.W.)

Leptostyla Stål.

clitoriæ Heidemann. *heidemanni* Osborn and Drake. Proc. Wash. Ent. Soc., xiii, 137.

Physatocheila Fieber.

plexa Say. Compl. Writ., i, 349. (E. L. D.)
variegata Parshley. Psyche, xxiii, 166.

Leptoypha Stål.

mutica Say. Compl. Writ., i, 349.

Melanorhopala Stål.

clavata Stål. *Tingis.* Enum. Hemip., iii, 130.

Hesperotingis Parshley.

antennata Parshley. Psyche, xxiv, 21.

Family LYGÆIDÆ.

Oncopeltus Stål.

fasciatus Dallas. Enum. Hemip., iv, 103. (G.H.H.)

Lygæus Fabricius.

kalmii Stål. Enum. Hemip., iv, 107.
reclivatus Say. Compl. Writ., i, 329.

Ortholomus Stål.

longiceps Stål. Enum. Hemip., iv, 120.

Nysius Dallas.

californicus Stål. Enum. Hemip., iv, 120.

ericæ Schilling. *angustatus*. Insect Book, 311; Hayden's Geol. Surv. Mont., 406.

Ischnorrhynchus Fieber.

geminatus Say. *Lygæus*. Compl. Writ., 1, 330.

Cymus Hahn.

angustatus Stål. Enum. Hemip., iv, 126.

luridus Stål. *Ibid.*, iv, 126.

Ischnodemus Fieber.

falicus Say. Compl. Writ., i, 331.

Blissus Burmeister.

hirtus Montandon. Ann. Soc. Ent. Belg., xxxvii, 405.

leucopterus Say. Chinch bug. Insect Book, 311; Bur. Ent., Bull. 69.

Geocoris Fallen.

bullatus Say. Compl. Writ., i, 336.

bullatus var. **discopterus** Stål. Enum. Hemip., iv, 136.

uliginosus Say var. **limbatus** Stål. *Ibid.*, iv, 136.

uliginosus var. **speculator** Montandon. Bull. Soc. Sci. Buc., xvi, 227.

Isthmocoris McAtee.

piceus Say. Compl. Writ., i, 336.

Phlegyas Stål.

abbreviatus Uhler. *Peliopelta*. *Phygadicus*. Bull. Geol. Geog. Surv. Terr., ii, 313.

Œdancala Amyot and Serville.

dorsalis Say. Compl. Writ., i, 335.

Crophius Stål.

disconotus Say. Compl. Writ., i, 330.

Myodocha Latreille.

serripes Olivier. Insect Book, Pl. xxix, 23.

Heræus Stål.

plebejus Stål. Enum. Hemip., iv, 147.

Ligyrocoris Stål.

diffusus Uhler. Proc. Bos. Soc. Nat. Hist., xiv, 101.

Perigenes Distant.

constrictus Say. *fallax* Heidemann. Compl. Writ., i, 332.
costalis Van Duzee. Can. Ent., xli, 373.

Orthæa Dallas.

basalis Dallas. List. Hemip., ii, 575.

Ptochiomera Say.

clavigera Uhler. Hemip. Col., 24.

Cnemodus Herrich-Schæffer.

mavortius Say. Compl. Writ., i. 337.

Pseudocnemodus Barber.

canadensis Provancher. *bruneri* Barber. Jour. N. Y. Ent. Soc., xix, 26.

Ozophora Uhler.

picturata Uhler. Proc. Bost. Soc. Nat. Hist., xiv, 102.

Rhyparochromus Curtis.

plenus Distant. Biol. Centr. Amer., Heterop., i, 216.

Sphragisticus Stål.

nebulosus Fallen. *Trapezonotus*. List. Hemip., ii, 564.

Aphanus Distant.

plenus Distant. Biol. Centr. Amer., Heterop., i, 409.

Emblethis Fieber.

vicarius Horvath. Ann. Mus. Nat. Hung., vi, 563.

Eremocoris Fieber.

ferus Say. *Pamera*. Compl. Writ., i, 333.

Xestocoris Van Duzee.

nitens Van Duzee. Ent. News, xvii, 390.

Cryphula Stål.

parallelogramma Stål. Enum. Hemip., iv, 165.

Scolopostethus Fieber.

atlanticus Horvath. Rev. d'Entom., xii, 239.
thomsoni Reuter. Ann. Soc. Ent. Fr., Ser. 5, ii, 562.

Family NEIDIDÆ.

Neides Latreille.

muticus Say. Compl. Writ., i, 328.

Jalysus Stål.

spinosus Say. *Berytus.* Compl. Writ., i, 28.

Family ARADIDÆ.

Aradus Fabricius.

abbas Bergroth. Bull. Soc. Ent. Belg., 1889. clxxx.
falleni Stål. Enum. Hemip., iii, 136. (M.P.Z.)
quadrilineatus Say. Compl. Writ., ii, 249.
robustus Uhler. Proc. Bos. Soc. Nat. Hist., xiv, 104.
similis Say. Compl. Writ., i, 351.

Aneurus Curtis.

fiskei Heidemann. Proc. Wash. Ent. Soc., vi, 164. (E.L.D.)
inconstans Uhler. Proc. Bost. Soc. Nat. Hist., xiv, 105.

Family COREIDÆ.

Merocoris Perty.

Corynocoris Mayr.

typhæus Fabricius var. distinctus Dallas. Ent. Syst., Suppl. 537; List. Hemip., ii, 419. (L.B.W.)

Acanthocephala Laporte.

terminalis Dallas. *Metapodius.* Insect Book, Pl. xxxi, 19; Bull. Geol. Geog. Surv. Terr., ii, (5) 298.

Euthochtha Mayr.

galeator Fabricius. *Acanthocerus.* Insect Book, Pl. xxxi, 31; Syst Rhyng., 191.

Anasa Amyot and Serville.

armigera Say. Compl. Writ., ii, 244.
repetita Heidemann. Proc. Wash. Ent. Soc., vii, 11.
tristis DeGeer. Squash bug. Rept. Conn. Agr. Expt. Sta., 1908, 811; 1919, 44.

Family ALYDIDÆ.

Protenor Stål.

belfragei Haglund. Stett. Ent. Zeit., 1868, 162.

Megalotomus Fieber.

quinquespinosus Say. *Lygæus.* Insect Book, Pl. xxxi, 25; Compl. Writ., ii, 247.

Alydus Fabricius.

eurinus Say. *Lygæus.* Insect Book, Pl. xxxi, 24; Compl. Writ., ii, 247.

pilosulus Herrich-Schæffer. *Ibid.,* Pl. xxix, ii; Proc. U. S. Nat. Mus., xvi, 50.

Family CORIZIDÆ.

Harmostes Burmeister.

reflexulus Say. Insect Book, Pl. xxix, 14; Compl. Writ., i, 323.

Corizus Fallen.

lateralis Say. Ann. Ent. Soc. Am., i, 140.

bohemani Signoret. *nigristernum. Ibid.,* i, 143.

Family PENTATOMIDÆ.

Podops Laporte.

cinctipes Say. Trans. Am. Ent. Soc., xxx, 22.

Brochymena Amyot and Serville.

carolinensis Westwood, *annulata* Fabricius. Trans. Am. Ent. Soc., xxx, 27.

arborea Say. *Ibid.,* xxx, 27.

quadripustulata Fabricius. *Ibid.,* xxx, 28.

Peribalus Mulsant and Rey.

limbolarius Stål. *Holcostethus.* Trans. Am. Ent. Soc., xxx, 32.

Trichopepla Stål.

semivittata Say. Insect Book, Pl. xxx, 6; Trans. Am. Ent. Soc., xxx, 34.

Rhytidolomia Stål.

saucia Say. *Lioderma.* Trans. Am. Ent. Soc., xxx, 36.
senilis Say. *Lioderma. Ibid.,* xxx, 37.

Chlorochroa Stål.

uhleri Stål. *persimilis* Horvath. *Pentatoma juniperina. Lioderma.* Trans. Am. Ent. Soc., xxx, 39.

Mormidea Amyot and Serville.

lugens Fabricius. Insect Book, Pl. xxxi, 3; Stett. Ent. Zeit. xxiii, 103.

Solubea Bergroth.

pugnax Fabricius. *Œbalus.* Enum. Hemip., ii, 22.

Euschistus Dallas.

euschistoides Vollenhoven. *fissilis* Uhler. Trans. Am. Ent. Soc., xxx, 44.
ictericus Linnæus. *Ibid.,* xxx, 47.
tristigmus Say. *Ibid.,* xxx, 47.
variolarius Beauvois. Spined tobacco bug. Rept. Conn. Agr. Expt. Sta., 1906, 274.

Cœnus Dallas.

delius Say. Insect Book, Pl. xxx, 11; Compl. Writ., i, 320.

Hymenarcys Amyot and Serville.

nervosa Say. *Pentatoma.* Compl. Writ., i, 321.

Neottiglossa Kirby.

undata Say. Trans. Am. Ent. Soc., xxx, 50.

Cosmopepla Stål.

bimaculata Thomas. *carnifex* Fabricius. Insect Book, Pl. xxxi, 6.

Menecles Stål.

insertus Say. *Pentatoma.* Compl. Writ., i, 317.

Thyanta Stål.

calceata Say. *Pentatoma.* Compl. Writ., i, 320.
custator Fabricius. Insect Book, Pl. xxx, fig. 17.

Murgantia Stål.

histrionica Hahn. Harlequin cabbage bug. Bur. Ent., Circ. 103. (H.L.J.)

Acrosternum Fieber.

hilare Say. Insect Book, Pl. xxxi, 10; Trans. Am. Ent. Soc., xxx, 58.
pennsylvanicum DeGeer. *Ibid.*, xxx, 57.

Banasa Stål.

calva Say. Insect Book, Pl. xxx, 30; Trans. Am. Ent. Soc., xxx, 59.
dimidiata Say. *Ibid.*, xxx, 59.

Dendrocoris Bergroth.

humeralis Uhler. *Liotropis.* Bull. Geol. Geog. Surv., xxx, 400.

Meadorus Mulsant and Rey.

lateralis Say. *Elasmucha.* Trans. Am. Ent. Soc., xxx, 73.

Elasmostethus Fieber.

cruciatus Say. *borealis* Westwood. Compl. Writ., i, 311. (L.B.W.)

Stiretrus Laporte.

anchorago Fabricius. Spec. Ins., ii, 341.

Perillus Stål.

circumcinctus Stål. Trans. Am. Ent. Soc., xxx, 67.
exaptus Say. *Ibid.*, xxx, 65.

Mineus Stål.

strigipes Herrich-Schæffer. Trans. Am. Ent. Soc., xxx, 67.

Apateticus Dallas.

bracteatus Fitch. *Podisus.* Trans. Am. Ent. Soc., xxx, 70.
cynicus Say. *Podisus. Ibid.*, xxx, 68.

Podisus Herrich-Schæffer.

maculiventris Say. *spinosus.* Spined soldier bug. Rept. Conn. Agr. Expt. Sta., 1908, Pl. lv, d.
modestus Dallas. Trans. Am. Ent. Soc., xxx, 71.
placidus Uhler. *Ibid.*, xxx, 71.
serieventris Uhler. *Ibid.*, xxx, 71.

Family CYDNIDÆ.

Thyreocoris Schrank.

ater Amyot and Serville. *Corimelæna unicolor* Beauvois. Trans. Am. Ent., Soc., xxx, 4.

lateralis Fabricius. *gillettii. Corimelæna. Ibid.*, xxx, 7.

nitiduloides Wolff. *Corimelæna. Ibid.*, xxx, 5.

pulicarius Germar. *Corimelæna. Ibid.*, xxx, 9.

Amnestus Dallas.

pallidus Zimmer. Can. Ent., xlii, 166.

pusillus Uhler. *subferrugineus.* Trans. Am. Ent. Soc., xxx, 25. (H.L.V.)

spinifrons Say. *Ibid.*, xxx, 25.

Sehirus Amyot and Serville.

cinctus Beauvois. *Canthophorus.* Bull. Geol. Geog. Surv., Terr. iii, 397.

Family SCUTELLERIDÆ.

Homæmus Dallas.

æneifrons Say. Trans. Am. Ent. Soc., xxx, 13.

Eurygaster Laporte.

alternata Say. Trans. Am. Ent. Soc., xxx, 18.

Order LEPIDOPTERA.

Butterflies and Moths.

Suborder HETEROCERA.

Moths.

Family MICROPTERYGIDÆ.

Eriocephala Curtis.

griseocapitella Walsingham. Ent. Rec., x, 161.

Family HEPIALIDÆ.

Sthenopis Packard.

argenteomaculatus Harris. Silver-spotted ghost moth. Moth Book, 443.

quadriguttatus Grote. Proc. Phila. Ent. Soc., iii, 73; Moth Book, 443.

Family TINEIDÆ.

Pseudanaphora Walsingham.

arcanella Clemens. Proc. Acad. Nat. Sci. Phila., 1859, 262.

Acrolophus Poey.

plumifrontellus Clemens. Proc. Acad. Nat. Sci. Phila., 1859, 261; Moth Book, 443.

Pronuba Riley.

yuccasella Riley. Rept. Ins. Mo., v, 150; Ins. Life, iv, 360; Moth Book, 441.

Pitys Chambers.

fasciella Chambers. Can. Ent., v, iii. (C.R.E.)

miscecristatella Chambers. *Ibid.*, v, iii. (C.R.E.)

Hybroma Clemens.

servulella Clemens. Proc. Phila. Ent. Soc., i, 137. (C.R.E.)

Cyane Chambers.

visaliella Chambers. Can. Ent., v, 113. (C.R.E.)

Amadrya Clemens.

effrenatella Clemens. Proc. Acad. Nat. Sci. Phila., 1859, 260.
confusella Dietz. Trans. Am. Ent. Soc., xxxi, 8. (C.R.E.)

Homosetia Clemens.

costisignella Clemens. Trans. Am. Ent. Soc., xxxi, 83. (C.R.E.)

Tinea Linnæus.

acapnopennella Clemens. Trans. Am. Ent. Soc., xxxi, 63.
arcella Fabricius. *Ibid.*, xxxi, 62.
biflavimaculella Clemens. *Ibid.*, x, 170. (C.R.E.)
carnariella Clemens. Proc. Acad. Nat. Sci. Phila., 1859, 256. (C.R.E.)
dorsistrigella Clemens. *subjunctella. Ibid.*, 1859, 257.
fuscipunctella Haworth. *frigidella.* Trans. Am. Ent. Soc., x, 171. (C.R.E.)
granella Linnæus. *variatella. Ibid.*, x, 171.
marginistrigella Chambers. Can. Ent., v, 88. (C.R.E.)
obscurostrigella Chambers. *Ibid.*, vi, 232. (C.R.E.)
pellionella Linnæus. Fur moth. Trans. Am. Ent. Soc., xxxi, 51: Moth Book, 433. (C.R.E.)
rileyi Dietz. Trans. Am. Ent. Soc., xxxi, 59.

Monopsis Hübner.

ferruginella Hübner. *crocicapitella.* Trans. Am. Ent. Soc., x, 1, 170; xxxi, 33.

Tineola Herrich-Schæffer.

bisselliella Hummel. Clothes moth. Bur. Ent., Bull. 4, new ser., 66: Moth Book, 432.

Xylestia Clemens.

pruniramiella Clemens. Proc. Acad. Nat. Sci. Phila., 1859, 257. (C.R.E.)

Scardia Treitschke.

approximatella Dietz. Trans. Am. Ent. Soc., xxxi, 27.

Acrolepia Curtis.

incertella Chambers. *dorsimaculella.* Can. Ent., v, 174. (C.R.E.)

Argyresthia Hübner.

andereggiella Duponchel. *oreasella.* Tin. N. A., 93.
annettella Busck. Proc. U. S. Nat. Mus., xxxii, 12.
austerella Zeller. *undulatella* Chambers. *Ibid.,* xxxii, 22.
freyella Walsingham. *Ibid.,* xxxii, 11. (C.R.E.)
gœdartella Linnæus. *Ibid.,* xxxii, 12. (C.R.E.)

Swammerdamia Hübner.

castanæ Busck. Proc. Wash. Ent. Soc., xvi, 148. (C.R.E.)

Tischeria Zeller.

citrinipennella Clemens. Tin. N. A., 39. (C.R.E.)
malifoliella Clemens. Apple leaf-miner. Can. Ent., iii, 208; Storrs Agr. Expt. Sta., Bull. 45.
solidaginifoliella Clemens. Tin. N. A., 81. (C.R.E.)

Lyonetia Hübner.

sp. (several species probably synonymous.)

Philonome Chambers.

clemensella Chambers. Can. Ent., vi, 97. (C.R.E.)

Proleucoptera Busck.

albella Chambers. Can. Ent., iii, 23. (C.R.E.)

Marmara Clemens.

elotella Busck. Jour. Econ. Ent., 10, 488.
salictella Clemens. Proc. Phila. Ent. Soc., ii, 7. (C.R.E.)

Leucanthiza Clemens.

amphicarpeæfoliella Clemens. Tin. N. A., 85. (C.R.E.)

Ornix Treitschke.

cratægifoliella Clemens. Can. Ent., v, 48: Trans. Am. Ent. Soc., xxxiii, 292. (C.R.E.)
kalmiella Dietz. Trans. Am. Ent. Soc., xxxiii, 291. (C.R.E.)
obliterella Dietz. *Ibid.,* xxxiii, 297. (C.R.E.)
præciosella Dietz. *Ibid.,* xxxiii, 291. (C.R.E.)
prunivorella Chambers. *Ibid.,* xxxiii, 294. (C.R.E.)
quadripunctella Clemens. Tin. N. A., 177. (C.R.E.)

Gracillaria Haworth.

alchimiella Scopoli. *superbifrontella.* Trans. Am. Ent. Soc., x, 191.

belfrageella Chambers. Can. Ent., vii, 92. (C.R.E.)
bimaculatella Ely. Insec. Insc. Menst., iii, 53. (C.R.E.)
blandella Clemens. Tin. N. A., 257. (C.R.E.)
burgessiella Zeller. Insec. Insc. Menst., iii, 51. (C.R.E.)
cornusella Ely. *Ibid.*, iii, 53. (C.R.E.)
coroniella Clemens. Tin. N. A., 243, (C.R.E.)
elongella Linnæus. Trans. Am. Ent. Soc., x, 193. (C.R.E.)
fasciella Chambers. *Ibid.*, x, 201. (C.R.E.)
flavella Ely. Insec. Insc. Menst., iii, 56. (C.R.E.)
flavimaculella Ely. *Ibid.*, iii, 57. (C.R.E.)
fraxinella Ely. *Ibid.*, iii, 58. (C.R.E.)
fulgidella Clemens. Tin. N. A., 92. (C.R.E.)
glutinella Ely. Insec. Insc. Menst., iii, 55. (C.R.E.)
juglandiella Chambers. Can. Ent., vii, 9. (C.R.E.)
lespedezæfoliella Clemens. *robiniella.* Tin. N. A., 144, 207. (C.R.E.)
minimella Ely. Insec. Insc. Menst., iii, 58. (C.R.E.)
ostryæella Chambers. Ent. News, xxiii, 167. (C.R.E.)
packardella Chambers. Can. Ent., iv, 27. (C.R.E.)
pennsylvaniella Engel. Ent. News, xviii, 276. (C.R.E.)
purpuriella Chambers. Can. Ent., ix, 126. (C.R.E.)
quercinigrella Ely. Insec. Insc. Menst., iii, 60. (C.R.E.)
rhoifoliella Chambers. Can. Ent., viii, 31. (C.R.E.)
sassafrasella Chambers. *Ibid.*, viii, 33. (C.R.E.)
serotinella Ely. *Coriscium.* Ent. News, xix, 57. (C.R.E.)
stigmatella Fabricius. Can. Ent. xi, 74. (C.R.E.)
strigifinitella Clemens. Tin. N. A., 92. (C.R.E.)
venustella Clemens. *eupatoriella. Ibid.*, 92. (C.R.E.)
violacella Clemens. *desmodifoliella. Ibid.*, 93, 268. (C.R.E.)

Lithocolletes Hübner.

aceriella Clemens. Tin. N. A., 65. (C.R.E.)
argentifimbriella Clemens. Trans. Am. Ent. Soc., xxxiv, 281. (C.R.E.)
basistrigella Clemens. *Ibid.*, xxxiv, 308. (C.R.E.)
bethuniella Chambers. Can. Ent., iii, 109. (C.R.E.)
betulivora Walsingham. Ins. Life, iii, 326. (C.R.E.)
caryæalbella Chambers. Can. Ent., iii, 58. (C.R.E.)
caryæfoliella Clemens. Tin. N. A., 65. (C.R.E.)

cincinnatiella Chambers. Trans. Am. Ent. Soc., xxxiv, 329. (C.R.E.)
corylisella Chambers. *Ibid.*, xxxiv, 344. (C.R.E.)
cratægella Clemens. Tin. N. A., 76. (C.R.E.)
desmodiella Clemens. *Ibid.*, 68. (C.R.E.)
fitchiella Clemens. *Ibid.*, 139. (C.R.E.)
guttifinitella Clemens. *Ibid.*, 65. (C.R.E.)
hamadryella Clemens. White oak blotch leaf miner. Can. Ent., iii, 55.
lentella Braun. Trans. Am. Ent. Soc., xxxiv, 326. (C.R.E.)
lucidicostella Clemens. *Ibid.*, xxxiv, 281. (C.R.E.)
nemoris Walsingham. Ins. Life, ii, 116. (C.R.E.)
ostryarella Chambers. Can. Ent., iii, 111. (C.R.E.)
picturatella Braun. Ent. News, xxvii, 84. (C.R.E.)
saccharella Braun. Trans. Am. Ent. Soc., xxxiv, 327. (C.R.E.)
salicifoliella Clemens. Tin. N. A., 169. (C.R.E.)
ulmella Chambers. Can. Ent., iii, 148. (C.R.E.)

Bucculatrix Zeller.

canadensisella Chambers. Birch leaf skeletonizer. Rept. Conn. Agr. Expt. Sta., 1909-10, 701.
magnella Chambers. Can. Ent., vii, 54. (C.R.E.)
nivella Chambers. *Ibid.*, vii, 54. (C.R.E.)
pomifoliella Clemens. Apple Bucculatrix. Ribbed cocoon-maker. Cornell Agr. Expt. Sta., Bull. 214: Moth Book, 431.
sp.

Opostega Zeller.

bosqueella Chambers. Bull. Geol. Geog. Surv. Terr., iv, 106. (C.R.E.)
magnella Chambers. Can. Ent., vii, 54. (C.R.E.)
niveella Chambers. *Ibid.*, vii, 54. (C.R.E.)
quadristrigella Chambers. Cin. Quart. Jour. Sci., ii, 106. (C.R.E.)

Trifurcula Zeller.

obrutella Zeller. Verh. Zool.-Bot. Ges. Wien., xxiii, 316. (C.R.E.)

Nepticula Von Heyden.

amelanchierella Clemens. Tin. N. A., 174. (C.R.E.)
virginiella Clemens. *Ibid.*, 172. (C.R.E.)
sp.

Family ELACHISTIDÆ.

Walshia Clemens.

amorphella Clemens. Tin. N. A., 241. (C.R.E.)

Mompha Hübner.

cephalonthiella Chambers. Can. Ent., iii, 221. (C.R.E.)
eloisella Clemens. Tin. N. A., 131.

Stagmatophora Herrich-Schæffer.

ceanothiella Cosens. Can. Ent., xl, 107.
sexnotella Chambers. Jour. N. Y. Ent. Soc., x, 97.
sp.

Psacaphora Herrich-Schæffer.

passerella Busck. Proc. Wash. Ent. Soc., xi, 95. (C.R.E.)
sp.

Theisoa Chambers.

constrictella Zeller. *bifasciella*. Can. Ent., vi, 76. (C.R.E.)

Stilbosis Clemens.

tesquella Clemens. Tin. N. A., 129. (C.R.E.)

Antispila Hübner.

cornifoliella Clemens. Tin. N. A., 103. (C.R.E.)

Scythris Hübner.

albapennella Chambers. Can. Ent. vii, 11.
eboracensis Zeller. Linn. Ent., x, 205.

Lymnæcia Stainton.

phragmitiella Stainton. Cat. Brit. Tin., Suppl., 4, 1851.

Elachista Treitschke.

albapalpella Chambers. Jour. Cin. Soc. Nat. Hist., viii, 240. (C.R.E.)
curvilineella Chambers. Can. Ent., iv, 172. (C.R.E.)
sp.

Erineda Busck.

elyella Busck. Proc. Wash. Ent. Soc., xi, 94. (C.R.E.)

Cosmopteryx Hübner.

gemmiferella Clemens. Proc. Acad. Nat. Sci. Phila., 1860, 10.

Batrachetra Stainton.

trichella Busck. Can. Ent., xl, 196. (C.R.E.)

Coleophora Hübner.

cratipennella Clemens. Proc. Phila. Ent. Soc., iii, 506. (C.R.E.)

fletcherella Fernald. Can. Ent., iv, 122.

laricella Hübner. Ins. Aff. Park and Woodl. Trees, i, 170.

limosipennella Duponchel. *Ibid.*, i, 167.

spissicornis Haworth. *corruscipennella.* Tin. N. A., 88. (C.R.E.)

sp.

Family BLASTOBASIDÆ.

Holcocera Clemens.

chalcofrontella Clemens. Proc. Phila. Ent. Soc., ii, 122. (C.R.E.)

elyella Dietz. Trans. Am. Ent. Soc., xxxvi, 49. (C.R.E.)

melanostriatella Dietz. *Ibid.*, xxxvi, 66. (C.R.E.)

Valentina Walsingham.

modestella Clemens. *glandulella.* Trans. Am. Ent. Soc., xxxvi, 33. (C.R.E.)

Pseudopigritia Dietz.

equitella Dietz. Trans. Am. Ent. Soc., xxvii, 112.

Pigritia Clemens.

laticapitella Clemens. Trans. Am. Ent. Soc., xxvii, 106.

ornatella Dietz. *Ibid.*, xxvii, 107. (C.R.E.)

sp.

Family ŒCOPHORIDÆ.

Borkhausenia Hübner.

ascriptella Busck. Can. Ent., xl, 194.

shalleriella Chambers. *Œcophora.* Cin. Quart. Jour. Sci., ii, 114.

Decantha Busck.

borkhauseni Zeller. Verh. Zool-Bot. Ges. Wien., xxiii, 290. (C.R.E.)

Œcophora Latreille.

newmanella Clemens. *Dasycera.* Tin. N. A., 252.

Gerdana Busck.

caritella Busck. Pros. U. S. Nat. Mus., xxxv, 193. (C.R.E.)

Epicallima Dyar.

argenticinctella Clemens. Proc. Acad. Nat. Sci. Phila., 1860, 167.

Euclemensia Grote.

bassettella Clemens. Proc. Phila. Ent. Soc., ii, 423: Rept. Conn. Agr. Expt. Sta., 1916, 143.

Semioscopsis Hübner.

allenella Walsingham. Trans. Am. Ent. Soc., x, 174. (C.R.E.)

Depressaria Haworth.

atrodorsella Clemens. Proc. Acad. Nat. Sci. Phila., ii, 124.
betulella Busck. Proc. U. S. Nat. Mus., xxiv, 746. (C.R.E.)
fernaldella Walsingham. Ins. Life, i, 256.
gracilis Walsingham. *Ibid.*, i, 257. (C.R.E.)
heracliana DeGeer. *ontariella.* Can. Ent., ii, 3, 19. (C.R.E.)
pulvipennella Clemens. Proc. Phila. Ent. Soc., ii, 421.
robiniella Packard. Pack. Guide, 349.
sp. near **pallidella** Busck.

Cryptolechia Zeller.

tentoriferella Clemens. *Machima.* Tin. N. A., 148. (C.R.E.)

Psilocorsis Clemens.

quercicella Clemens. Tin. N. A. 149. (C.R.E.)

Agnopteryx Hübner.

flavicomella Engel. Ent. News, xviii, 276. (C.R.E.)
lecontella Clemens. Tin. N. A., 137.
fernaldella Walsingham. *walsinghamiella* Busck. Ins. Life, i, 256.

Family XYLORICTIDÆ.

Brachyloma Clemens.

querciella Busck. Proc. Wash. Ent. Soc., x, 112. (C.R.E.)

Stenoma Zeller.

leucillana Zeller; Ins. Life, ii, 153.
schlægeri Zeller. *Ibid.*, ii, 152.

Family GELECHIIDÆ.

Gelechia Hübner.

argentipunctella Ely. Proc. Wash. Ent. Soc., xii, 70. (C.R.E.)
conclusella Walker. *crescentifasciella.* Can. Ent., vi, 237. (C.R.E.)
disco-ocellella Chambers. *Ibid.*, iv, 194. (C.R.E.)
fluvialella Busck. *Ibid.*, xl, 194. (C.R.E.)
hibiscella Busck. Proc. U. S. Nat. Mus., xxv, 869. (C.R.E.)
maculimarginella Chambers. Can. Ent., vi, 241. (C.R.E.)
mediofuscella Clemens. Proc. Phila. Ent. Soc., ii, 11, 120.
nigrimaculella Busck. Proc. U. S. Nat. Mus., xxv, 880. (C.R.E.)
pseudoacaciella Chambers. Can. Ent., iv, 107.
pseudofondella Busck. Proc. Wash. Ent. Soc., ix, 87. (C.R.E.)
rileyella Chambers. Can. Ent., iv, 106. (C.R.E.)
trialbamaculella Chambers. Cin. Quart. Jour. Sci., ii, 250. (C.R.E.)
vernella Murtfeldt. *formoscella.* Can. Ent., xiii, 243. (C.R.E.)

Anacampsis Curtis.

innocuella Zeller. Proc. U. S. Nat. Mus., xxv, 845. (C.R.E.)
rhoifructella Clemens. Can. Ent., iii. 68. (C.R.E.)
tristrigella Walsingham. Trans. Am. Ent. Soc., x, 181.

Dichomeris Hübner.

herculella Busck. Proc. Wash. Ent. Soc., xi, 89. (C.R.E.)
marginellus Fabricius. Juniper webworm. Rept. N. Y. State Ent., 26, 35: Rept. Conn. Agr. Expt. Sta., 1915, 137.

Aproærema Durrant.

nigratomella Clemens. *apicilinella.* Proc. Phila. Ent. Soc., ii, 11, 120. (C.R.E.)

Anarsia Zeller.

lineatella Zeller. Peach twig borer. Rept. Conn. Agr. Expt. Sta., 1918, 306.

Ypsolophus Fabricius.

bipunctellus Walsingham. Trans. Am. Ent. Soc., x, 186. (C.R.E.)
ligulellus Hübner. *reedella.* Can. Ent. iv, 222.
ventrellus Fitch. Trans. N. Y. Agr. Soc., xiii, 254. (C.R.E.)

Anorthosia Clemens.

punctipennella Clemens. Can. Ent., iv, 225. (C.R.E.)

Glyphidocera Walsingham.

speratella Busck. Proc. Wash. Ent. Soc., ix, 88. (C.R.E.,

Trichotaphe Clemens.

alacella Clemens. Proc. Phila. Ent. Soc., i, 132. (C.R.E.)
flavocostella Clemens. *Ibid.,* i, 131.
inversella Zeller. Can. Ent., x, 54. (C.R.E.)
juncidella Clemens. *dubitella. Ibid.,* iv, 92. (C.R.E.)
serrativittella Zeller. *Ibid.,* ix, 24. (C.R.E.)
setosella Clemens. *costolutella. Ibid.,* iv, 209. (C.R.E.)
trimaculella Chambers. *Ibid.,* vi, 238. (C.R.E.)
trinotella Busck. *Ibid.,* xxxviii, 122. (C.R.E.)

Polyhymno Chambers.

luteostrigella Chambers. Can. Ent., vi, 247. (C.R.E.)

Gnorimoschema Busck.

artemisiella Kearfott. Jour. N. Y. Ent. Soc., xi, 160. (C.R.E.)
banksiella Busck. Proc. U. S. Nat. Mus., xxv, 832. (C.R.E.)
gallæasteriella Kellicott. Can. Ent., x, 203. (C.R.E.)
gallæsolidaginis Riley. Rept. Ins. Mo., i, 173.
saphirinella Chambers. Cin. Quart. Jour. Sci., ii, 250. (C.R.E.)

Trypanisma Clemens.

prudens Clemens. Tin. N. A., 125. (C.R.E.)

Epithectis Meyrick.

attributella Walker. *difficilisella.* Can. Ent., iv, 66.

Recurvaria Haworth.

apicitripunctella Clemens. Trans. Am. Ent. Soc., x, 182. (C.R.E.)

obliquestrigella Chambers. Can. Ent., iv, 65. (C.R.E.)

Aristotelia Hübner.

absconditella Walker. Trans. Am. Ent. Soc., x, 181. (C.R.E.)

fungivorella Clemens. Proc. Phila. Ent. Soc., iii, 507. (C.R.E.)

minimella Chambers. Can. Ent., vi, 243. (C.R.E.)

pudibundella Zeller. *intermediella.* Verh. Zool.-Bot. Ges. Wien., xxiii, 273. (C.R.E.)

quinquepunctella Busck. Proc. U. S. Nat. Mus., xxv, 804. (C.R.E.)

roseosuffusella Clemens. Proc. Phila. Ent. Soc., ii, 121.

rubidella Clemens. *Ibid.,* ii, 121. (C.R.E.)

Telphusa Chambers.

glandiferella Zeller. *sella.* Can. Ent., vi, 238. (C.R.E.)

latifasciella Chambers. Cin. Quart. Jour. Sci., ii, 251.

palliderosacella Chambers. Bull. Geol. Geog. Surv. Terr., iv, 90.

Sitotroga Heinemann.

cerealella Olivier. Angoumois grain moth. N. J. Agr. Expt. Sta., Bull. 147.

Paltodora Meyrick.

anteliella Busck. Proc. U. S. Nat. Mus., xxv, 778. (C.R.E.)

cilialineella Chambers. Can. Ent., vi., 242. (C.R.E.)

similiella Chambers. *Ibid.,* iv, 193. (C.R.E.)

Ptyocerata Ely.

busckella Ely. Proc. Wash. Ent. Soc., xii, 69. (C.R.E.)

Metzneria Zeller.

lappella Linnæus. Syst. Nat., 1758, 537.

Family YPONOMEUTIDÆ.

Yponomeuta Latreille.

multipunctella Clemens. Tin. N. A., 95. (C.R.E.)

Martyringa Busck.

latipennis Walsingham. Trans. Am. Ent. Soc., x, 190. (C.R.E.)

Harpipteryx Hübner.

xylostella Linnæus. Contr. Nat. Hist. Lepidop, iv, 246, pl. xxviii, fig. 12.

Plutella Schrank.

maculipennis Curtis. *cruciferarum. dubiosella.* Brit. Ent., 1832, pl. 420: Can. Ent., xxi, 27. (C.R.E.)

Choreutis Hübner.

inflatella Clemens. Proc. Phila. Ent. Soc., ii, 5.

Family TORTRICIDÆ.

Evetria Hübner.

comstockiana Fernald. Can. Ent., xi, 157.

Polychrosis Ragonot.

vernoniana Kearfott. Trans. Am. Ent. Soc., xxxiii, 7. (C.R.E.)

viteana Clemens. Grape berry moth. Cornell Agr. Expt. Sta., Bull. 223.

sp.

Bactra Stephens.

lanceolana Hübner. Schmett. Eur. Tort., f. 80. 1800. (C.R.E.)

Exartema Clemens.

concinnanum Clemens. Proc. Phila. Ent. Soc., v, 134. (C.R.E.)

fasciatanum Clemens. *Ibid.,* v, 134.

inornatanum Clemens. Proc. Phila. Ent. Soc., v, 134.

olivaceanum Fernald. Trans. Am. Ent. Soc., x, 71.

permundanum Clemens. Proc. Phila. Ent. Soc., v, 134.

punctanum Walsingham. Ill. Lep. Het. Brit. Mus., iv, 87. (C.R.E.)

sericoranum Walsingham. *Ibid.,* iv, 36.

versicoloranum Clemens. Proc. Acad. Nat. Sci. Phila., 1860, 357. (C.R.E.)

zellerianum Fernald. *nitidanum.* Verh. Zool-Bot. Ges. Wein., xxv, 270. (C.R.E.)

Olethreutes Hübner.*

abietana Fernald. Can. Ent., xl, 349.
agilana Clemens. Proc. Acad. Nat. Sci. Phila., 1860. 359. (C.R.E.)
bipartitana Clemens. *Ibid.*, 1860. 346.
campestrana Zeller. Verh. Zool-Bot. Ges. Wien., xxv. 282.
corruscana Clemens. Proc. Phila. Acad. Sci., 1860. 346.
cyanana Murtfeldt. Am. Ent., III. 14.
dimidiana Sodoffsky. Bull. Mosc., 1830. 73. (C.R.E.)
griseoalbana Walsingham. Ill. Lep. Het., Brit. Mus., iv. 38. (C.R.E.)
hartmanniana Linnæus. Faun. Suec. 345. (C.R.E.)
hartmanniana var. albeolana Zeller. Verh. Zool-Bot. Ges. Wien., xxv. 262.
hebesana Walker. Ill. Lep. Het., Brit Mus., iv. 31.
impudens Walsingham. Trans. Ent. Soc. Lond., 1884. 135 (C.R.E.)
instrutana Clemens. Proc. Phila. Ent. Soc., v. 135. (C.R.E.)
interruptolineana Fernald. *Penthina*. Trans Am. Ent. Soc., x. 70. (C.R.E.)
nimbatana Clemens. Proc. Acad. Nat. Sci. Phila., 1860. 346.
ochromediana Kearfott. Trans. Am. Ent. Soc., xxxiii. 11. (C.R.E.)
separatana Kearfott. *Ibid.* xxxiii. 13. (C.R.E.)
sp.

Pseudogalleria Ragonot.

inimicella Zeller. Verh. Zool-Bot. Ges. Wien., xxii. 559. (C.R.E.)

Eucosma Hübner.

abbreviatana Walsingham. Ill. Lep. Het., Brit. Mus., iv. 54.
agricolana Walsingham. *Ibid.* iv. 42. (C.R.E.)
albiguttana Zeller. Verh. Zool-Bot. Ges. Wien., xxv. 313. (C.R.E.)
boxcana Kearfott. Trans. Am. Ent. Soc., xxxiii. 87. (C.R.E.)
cataclystiana Walker. *Pædisca ochreana*. Proc. Phila. Ent. Soc., III. 520.
confana Kearfott. Proc. U. S. Nat. Mus., xxviii. 355. (C.R.E.)
culminana Walsingham. Ill. Lep. Het., iv. 38.

* See also appendix.

dorsisignatana Clemens. Proc. Acad. Nat. Sci. Phila., 1860. 353: Moth Book, 418.
fulminana Walsingham. Ill. Lep. Het., iv. 50. (C.R.E.)
gracilana Kearfott. Proc. U. S. Nat. Mus., xxviii. 352. (C.R.E.)
haracana Kearfott. *Protcopteryx*. Trans. Am. Ent. Soc., xxxiii. 46. (C.R.E.)
juncticiliana Walsingham. Ill. Lep. Het., iv. 75. (C.R.E.)
minutana Kearfott. Proc. U. S. Nat. Mus., xxviii. 356.
otiosana Clemens. Proc. Acad. Nat. Sci. Phila., 1860. 354. (C.R.E.)
pergandeana Fernald. Can. Ent. xxxvii. 399. (C.R.E.)
perplexana Fernald. *Epiblema*. Jour. N. Y. Ent. Soc., ix. 51. (C.R.E.)
scudderiana Clemens. *Saligneana*. Proc. Phila. Ent. Soc., v. 141. (C.R.E.)
solicitana Walker. Cat. Brit. Mus., xxviii. 387. (C.R.E.)
strenuana Walker. Ill. Lep. Het., iv. 52.
tomonana Kearfott. Can. Ent., xxxix. 78. (C.R.E.)
transmissana Walker. Ill. Lep. Het., iv. 52.
zomonana Kearfott. Can. Ent., xxxix. 80. (C.R.E.)

Cydia Hübner.

cinereodorsana Kearfott. Trans. Am. Ent. Soc., xxxiii. 39. (C.R.E.)
raracana Kearfott. *Ibid.*, xxxiii. 44. (C.R.E.)

Thiodia Hübner.

essexana Kearfott. Trans. Am. Ent. Soc., xxxiii. 39. (C.R.E.)
formosana Clemens. Proc. Acad. Nat. Sci. Phila., 1860. 360.
imbridana Fernald. Can. Ent., xxxvii. 400. (C.R.E.)
ochrotermenana Kearfott. *Ibid.*, xxxix. 57. (C.R.E.)
olivaceana Riley. Trans. St. Louis Acad. Sci., iv. 320. (C.R.E.)
signatana Clemens. Ins. Aff. Park and Woodl. trees, i, 168.
striatana Clemens. Proc. Acad. Nat. Sci. Phila., 1860. 349.

Episimus Walsingham.

argutanus Clemens. Proc. Acad. Nat. Sci. Phila., 1860. 358. (C.R.E.)

Proteopteryx Walsingham.

bolliana Slingerland. Jour. N. Y. Ent. Soc., xvi, 173.
cressoniana Clemens. Proc. Phila. Ent. Soc., 111. 514.

Epinotia Hübner.

crispana Clemens. Proc. Phila. Ent. Soc., v. 137.

fasciolana Clemens. *Ibid.*, III. 511. (C.R.E.)

illicifoliana Kearfott. Bull. Am. Mus. Nat. Hist., xxiii. 158. (C.R.E.)

saliciana Clemens. Proc. Phila. Ent. Soc., III. 515. (C.R.E.)

Tmetocera Lederer.

ocellana Schiffermüller. Bud moth. Rept. Conn. Agr. Expt. Sta., 1909-10. 353.

Eudemis Hübner.

vacciniana Packard. Black-headed cranberry worm. N. J. Agr. Expt. Sta., Spec. Bull. K. (C.R.E.)

Cenopis Zeller.

diluticostana Walsingham. *quercana*. Trans. Am. Ent. Soc., x, 69.

reticulatana Clemens. *Ibid.*, ii, 272. (C.R.E.)

testulana Zeller. Verh. Zool-Bot. Ges. Wien., xxv, 241. (C.R.E.)

Cœlostathma Clemens.

discopunctana Clemens. *Amphisa*. Proc. Acad. Nat. Sci. Phila., 1860, 355.

Sparganothis Hübner.

inconditana Walsingham. Ill. Lep. Het. Brit. Mus., iv, 16. (C.R.E.)

irrorea Robinson. Trans. Am. Ent. Soc., ii, 274.

xanthoides Walker. *breviornatana*. Proc. Phila. Ent. Soc., v, 140.

Archips Hübner.

argyrospila Walker. Cat. Brit. Mus., xxviii, 373: Moth Book, 422.

cerasivorana Fitch. Trans. Am. Ent. Soc., ii, 275: Moth Book, 422.

clemensiana Fernald. Can. Ent., xi, 155.

fervidana Clemens. *paludana*. Trans. Am. Ent. Soc., ii, 275. (C.R.E.)

infumatana Zeller. Verh. Zool-Bot. Ges. Wien., xxv, 216. (C.R.E.)

parallela Robinson. Trans. Am. Ent., Soc., ii, 267.

purpurana Clemens. Proc. Phila. Ent. Soc., v, 136: Moth Book, 422.

rileyana Grote. Trans. Am. Ent. Soc., ii, 121. (F.W.H.)
rosaceana Harris. Oblique banded leaf-roller. Jour. Econ. Ent. ii, 391: Moth Book, 422.
rosana Linnæus. Rept. Conn. Agr. Expt. Sta., 1913, 223.
semiferana Walker. *Tortrix flaccidana* Robinson. Trans. Am. Ent. Soc., ii, 277.
virescana Clemens. Proc. Phila. Ent. Soc., v, 140.

Ancylis Hübner.

angulifasciana Zeller. Verh. Zool-Bot. Ges. Wien., xxv, 256. (C.R.E.)
burgessiana Zeller. *Ibid.*, xxv, 252.
comptana Frölich. Strawberry leaf-roller. N. J. Agr. Expt. Sta., Bull. 149: Moth Book, 419.
diminutana Kearfott. Proc. U. S. Nat. Mus., xxviii, 361. (C.R.E.)
divisana Walker. Cat. Brit. Mus., xxviii, 385. (C.R.E.)
dubiana Clemens. Proc. Phila. Ent. Soc., iii, 512.
laciniana Zeller. Verh. Zool-Bot. Ges. Wien., xxv, 253.
muricana Walsingham. Ill. Lep. Het. iv, 74.
platanana Clemens. Proc. Acad. Nat. Sci. Phila., 1860, 349. (C.R.E.)
pulchellana Clemens. Proc. Phila. Ent. Soc., iii, 511. (C.R.E.)
subæquana Zeller. Verh. Zool-Bot. Ges. Wien., xxv, 254. (C.R.E.)

Enarmonia Hübner.

americana Walsingham. Ill. Lep. Het. Brit. Mus., iv, 67.
caryana Fitch. N. Y. Agr. Rept., xvi, 459. (C.R.E.)
interstinctana Clemens. Proc. Acad. Nat. Sci. Phila., 1860, 351.
prunivora Walsh. *Semasia.* Lesser apple worm. Rept. Ill. State Ent., i, 2d ed., 108.

Laspeyresia Hübner.

gallæsaliciana Riley. *Enarmonia.* Trans. St. Louis Acad. Sci., iv, 320. (C.R.E.)
molesta Busck. Oriental peach moth. Rept. Conn. Agr. Expt. Sta., 1918, 298.

Gymnandrosoma Dyar.

punctidiscanum Dyar. Proc. Wash. Ent. Soc., vi, 60.

Ecdytolopha Zeller.

insiticiana Zeller. Verh. Zool-Bot. Ges. Wien., xxv, 266.

Carpocapsa Treitschke.

pomonella Linnæus. *Cydia.* Codling-moth. Apple worm. Cornell Agr. Expt. Sta., Bull. 142; Moth Book, 419.

Phthinolophus Dyar.

indentanus Dyar. Proc. Wash. Ent. Soc., v, 307. (C.R.E.)

Acleris Hübner.

boscana Fabricius. Ent. Syst. Suppl., iii, 2, 269. (C.R.E.)
hastiana Linnæus. Trans. Am. Ent. Soc., ii, 280. (C.R.E.)
logiana Schiffermüller var. **viburnana** Clemens. *Ibid.*, ii, 281.
subnivana Walker. *deflectana. Ibid.*, ii, 283. (C.R.E.)
trisignana Robinson. *Ibid.*, ii, 282. (C.R.E.)

Peronea Curtis.

commandrana Fernald. Can. Ent., xxiv, 124. (C.R.E.)
ferrugana Schiffermüller. *gallicolana.* Proc. Phila. Ent. Soc., iii, 516. (C.R.E.)
heindelana Fernald. Am. Nat., xxxix, 170, 859, 873. (C.R.E.)
pulverosana Walker. Ill. Lep. Het. Brit. Mus., iv, 3. (C.R.E.)
trisignana Robinson. Trans. Am. Ent. Soc., ii, 282. (C.R.E.)
sp.

Epagoge Hübner.

sulfureana Clemens. Trans. Am. Ent. Soc., ii, 273.
virescana Clemens. Proc. Phila. Ent. Soc., v, 140.

Platynota Clemens.

flavedana Clemens. Trans. Am. Ent. Soc., ii, 278: Moth Book, 422.

Pandemis Hübner.

lamprosana Robinson. Trans. Am. Ent. Soc., ii, 264. (C.R.E.)
limitata Robinson. *Ibid.*, ii, 264.

Tortrix Linnæus.

albicomana Clemens. Proc. Phila. Ent. Soc., v, 137: Moth Book, 423.
fumiferana Clemens. *Ibid.*, v, 139.

nervosana Kearfott. Trans. Am. Ent. Soc., xxxiii, 71. (C.R.E.)
pallorana Robinson. *Ibid.*, ii, 266.
peritana Clemens. *Ibid.*, ii, 277. (C.R.E.)
quercifoliana Fitch. N. Y. Agr. Rept., 1858, 826.

Eulia Hübner.

alisellana Robinson. Trans. Am. Ent. Soc., ii, 267.
politana Haworth. Rept. U. S. Dept. Agr., 1880, 264. (C.R.E.)
quadrifasciana Fernald. Trans. Am. Ent. Soc., x, 67.
velutinana Walker. *triferana. incertana. lutosana.* Trans. Am. Ent. Soc., ii, 279.

Amorbia Clemens.

humerosana Clemens. Trans. Am. Ent. Soc., ii, 275: Moth Book, 423.

Phalonia Hübner.

angulatana Robinson. Trans. Am. Ent. Soc., ii, 286. (C.R.E.)
argentilimitana Robinson. *Ibid.*, ii, 287. (C.R.E.)
atmosana Busck. Jour. N. Y. Ent. Soc., xv, 22. (C.R.E.)
aurorana Kearfott. Trans. Am. Ent. Soc., xxxiii, 83. (C.R.E.)
biscana Kearfott. *Ibid.*, xxxiii, 75. (C.R.E.)
bunteana Robinson. *Ibid.*, ii, 288. (C.R.E.)
dorsimaculana Robinson. *Ibid.*, ii, 285.
hospes Walsingham. Trans. Ent. Soc. Lond., 1884, 131.
interruptofasciana Robinson. Trans. Am. Ent. Soc., ii, 287. (C.R.E.)
maiana Kearfott. *Ibid.*, xxxiii, 82. (C.R.E.)
marloffiana Busck. Jour. N. Y. Ent. Soc., xv, 26. (C.R.E.)
nonlavana Kearfott. Trans. Am. Ent. Soc., xxxiii, 85. (C.R.E.)
œnotherana Riley. Trans. St. Louis Acad. Sci., iv, 316.
rana Busck. Jour. N. Y. Ent. Soc., xv, 22. (C.R.E.)
temerana Busck. *Ibid.*, xv, 28. (C.R.E.)
winniana Kearfott. Can. Ent., xxxvii, 10. (C.R.E.)

Commophila Hübner.

contrastana Kearfott. Can. Ent., xxxix, 160.

Pharmacis Hübner.

sartana Hübner. Zutr. Exot. Schmett., ii, 111. (C.R.E.)

Hysterosia Stephens.

baracana Busck. Jour. N. Y. Ent. Soc., xv, 33. (C.R.E.)
terminana Busck. *Ibid.*, xv, 33. (C.R.E.)

Family PTEROPHORIDÆ.

Oxyptilus Zeller.

ningoris Walsingham. Pteroph. N. A., 20. (C.R.E.)
periscelidactylus Fitch. Grape plume moth. *Ibid.*, 17.
tenuidactylus Fitch. *Ibid.*, 20.

Platyptilia Hübner.

cosmodactyla Hübner. Pteroph. N. A., 25.
marginidactyla Fitch. *Ibid.*, 34.

Pterophorus Geoffroy.

cretidactylus Fitch. Pteroph. N. A., 52.
elliottii Fernald. Can. Ent., xxv, 95.
homodactylus Walker. Pteroph. N. A., 41.
inquinatus Zeller. *Ibid.*, 56. (C.R.E.)
paleaceus Zeller. *Ibid.*, 45.
sp.

Family PYRALIDÆ.

Glaphria Hübner.

fulminalis Lederer. Wien. Ent. Mon., vii, 487.
glaphyralis Guenée. *albolineata*. Trans. Am. Ent. Soc., i, 28.
invisalis Guenée. Spec. Gén., viii, 361. (C.R.E.)
sequistrialis Hübner. Zutr. Exot. Schmett., ii, 29. (C.R.E.)

Lipocosma Lederer.

fuliginosalis Fernald. Ent. Am., iv, 37.

Desmia Westwood.

funeralis Hübner. Schmett. Eur., f. 103, 1796: Moth Book, 392.
funeralis var. **subdivisalis** Grote. Can. Ent., iii, 126.

Diastictis Hübner.

argyralis Hübner. Zutr. exot. Schmett., i, 21.
argyralis var. **ventralis** Grote and Robinson. Trans. Am. Ent. Soc., i, 21. (C.R.E.)

Blepharomastix Lederer.

ranalis Guenée. *Botys gracilis.* Trans. Am. Ent. Soc., i, 25. (C.R.E.)

Pantographa Lederer.

limata Grote and Robinson. Can. Ent., xvi, 26: Moth Book, 393.

Diaphania Hübner.

hyalinata Linnæus. *Glyphodes.* Melon caterpillar. Rept. N. Y. State Ent., xi, 134: Moth Book, 394.

nitidalis Stoll. *Glyphodes.* Pickle worm. Rept. N. Y. State. Ent., xi, 126: Moth Book, 394. (A.H.Me.)

Evergestis Hübner.

simulatilis Grote. *brunneogrisea.* Ent. Am., ii, 171. (C.R.E.)

straminalis Hübner. Handb. Brit. Lep., 424.

Crocidophora Lederer.

tuberculalis Lederer. Wien. Ent. Mon., vii, 476. (C.R.E.)

Nomophila Hübner.

noctuella Denis and Schiffermüller. Can. Ent., xxv, 129.

Loxostege Hübner.

dasconalis Walker. Cat. Brit. Mus., xviii, 273.

helvialis Walker. *Ibid.,* xix, 981. (F.W.H.)

obliteralis Walker. Bur. Ent., Bull. 27, new ser., 102.

similalis Guenée. Spec. Gén., viii, 405.

Diasemia Hübner.

pisusalis Walker.

Tholeria Hübner.

reversalis Guenée. Spec. Gén., viii, 409. (F.W.H.)

Perispasta Zeller.

cæculalis Zeller. *immixtalis.* Can. Ent., xiii, 232.

Phlyctænia Hübner.

acutella Walker. Cat. Brit. Mus., xxxv, 1753.

ferrugalis Hübner. *rubigalis.* Greenhouse leaf-tyer. Rept. Conn. Agr. Expt. Sta., 1909-10, 369.

terrealis Treitschke. Schm. Eur., vii, 110.

tertialis Guenée. *plectilis.* Trans. Am. Ent. Soc., i, 27: Moth Book, 397.

Cindaphia Lederer.

bicoloralis Guenée. Spec. Gén., viii, 205: Moth Book, 397.

Pyrausta Schrank.

ainsliei Heinrich. Rept. Conn. Agr. Expt. Sta., 1919, 173.
acrionalis Walker. Cat. Brit. Mus., xix, 925.
æglealis Walker. *Ibid.*, xviii, 565.
chalybealis Fernald. (MS. name.) (C.R.E.)
fissalis Grote. Bull. Geol. Geog. Surv. Terr., vi, 273. (C.R.E.)
fumalis Guenée. Spec. Gén., viii, 358: Moth Book, 397.
funebris Ström. *octomaculata.* Moth Book, 398. (F.W.H.)
futilalis Lederer. *erectalis.* Can. Ent., viii, 99.
illibalis Hübner. Zutr. Exot. Schmett., i, 19.
insequalis Guenée. Spec. Gén., viii, 447: Moth Book, 398.
niveicilialis Grote. Bull. Buff. Soc., Nat. Sci., ii, 232: Moth Book, 398 (F.W.H.)
orphisalis Walker. *adipaloides.* Trans. Am. Ent. Soc., i, 26. (C.R.E.)
oxydalis Guenée. Spec. Gén., viii, 328.
penitalis Grote. Can. Ent., viii, 98. (C.R.E.)
pertextalis Lederer. Wien. Ent. Mon., vii, 466: Moth Book, 397.
phœnicealis Hübner. Zutr. Exot. Schmett., i, 22.
rubricalis Hübner. *similalis.* Schmett. Eur., 22, pl. 16, f. 106. (F.W.H.)
signatalis Walker. *vinulenta* Grote and Robinson. Trans. Am. Ent. Soc., i, 16.
theseusalis Walker. Cat. Brit. Mus., xviii, 562.
thestealis Walker. *Ibid.*, xviii, 733.
sp. (Undescribed.)

Eustixia Hübner.

pupula Hübner. Moth Book, 398.

Nymphula Schrank.

allionealis Walker. Cat. Brit. Mus., xvii, 453.
badiusalis Walker. *Ibid.*, xix, 955.
icciusalis Walker. *Ibid.*, xix, 971.
maculalis Clemens. Proc. Acad. Nat. Sci. Phila., 1860, 218.
obscuralis Grote. Papilio, i, 18: Moth Book, 399.

Geshna Dyar.

primordialis Dyar. Jour. N. Y. Ent. Soc., xiv, 97.

Elophila Hübner.

fulicalis Clemens. Proc. Acad. Nat. Sci. Phila., 1860, 217.

Diathrausta Lederer.

reconditalis Walker. Cat. Brit. Mus., xix, 943.

Scoparia Haworth.

basalis Walker. Cat. Brit. Mus., xxxiv, 1497.

centuriella Denis and Schiffermüller. *ninguidalis*. Trans. Am. Ent. Soc., xiii, 147. (C.H.Y.)

rectilinea Zeller. Verh. Zool-Bot. Ges. Wien., xxiv, 5.

Aglossa Latreille.

cuprealis Hübner. Verz. bek. Schmett., 1826, 348.

Hypsopygia Hübner.

costalis Fabricius. Clover hay worm. Rept. Conn. Agr. Expt. Sta., 1900, 315: Moth Book, 399.

Pyralis Linnæus.

cuprina Zeller. Verh. Zool-Bot. Ges. Wien., xxii, 497. (C.R.E.)

farinalis Linnæus. Meal snout moth. Bur. Ent., Bull. 4, new ser., 119: Moth Book, 400.

Herculia Walker.

cohortalis Grote. Can. Ent., x, 233.

intermedialis Walker. Trans. Ent. Soc. Lond., i, 118.

olinalis Guenée. Spec. Gén., viii, 118: Moth Book, 401.

Omphalocera Lederer.

dentosa Grote. Bull. Geol. Geog. Surv. Terr., vi, 272.

Tosale Walker.

oviplagis Walker. *anthœcioides*. Trans. Am. Ent. Soc., i, 15. (C.R.E.)

Arta Grote.

statalis Grote. Bull. Buff. Soc., Nat. Sci., ii, 230.

Condylolomia Grote.

participialis Grote. Bull. Buff. Soc., Nat. Sci., i, 177. (C.R.E.)

Galasa Walker.

rubidana Walker. Cat. Brit. Mus., xxxv, 1802.

Schœnobius Duponchel.

clemensellus Robinson. Ent. Am., iv, 138. (C.H.Y.)
forficellus Thunberg. *longirostrellus. Ibid.*, iv, 139.
tripunctellus Robinson. *Ibid.*, iv, 136.
unipunctellus Robinson. *Ibid.*, iv, 136.

Crambus Fabricius.

agitatellus Clemens. N. A. Cramb., 37.
albellus Clemens. *Ibid.*, 38.
alboclavellus Zeller. *Ibid.*, 36: Moth Book, 402.
bidens Zeller. N. A. Cramb., 32. (C.R.E.)
caliginosellus Clemens. *Ibid.*, 61.
decorellus Zincken. *Ibid.*, 52.
elegans Clemens. *Ibid.*, 45.
girardellus Clemens. *Ibid.*, 28.
hortuellus Hübner. *Ibid.*, 40.
laqueatellus Clemens. *Ibid.*, 35: Moth Book, 402.
leachellus Zincken. N. A. Cramb., 29.
luteolellus Clemens. *Ibid.*, 64. (C.R.E.)
mutabilis Clemens. *Ibid.*, 57.
præfectellus Zincken. *Ibid.*, 31.
ruricolellus Zeller. *Ibid.*, 49.
teterrellus Zincken. *Ibid.*, 51. (C.R.E.)
trisectus Walker. *Ibid.*, 59: Moth Book, 403.
turbatellus Walker. N. A. Cramb., 44: Moth Book, 402.
vulgivagellus Clemens. N. A. Cramb., 47.
zeellus Fernald. *Ibid.*, 62. (C.R.E.)

Haimbachia Dyar.

placidellus Haimbach. Ent. News, xviii, 44.

Argyria Hübner.

auratella Clemens. N. A. Cramb., 72.
multilineatella Hulst. Ent. Am., iii, 134. (C.R.E.)
nivalis Drury. *Ibid.*, iii, 71.

Platytes Guenée.

vobisne Dyar. Insec. Insc. Menst., viii, 162.

Diatræa Guilding.

alleni Fernald. Ent. Am., iv, 120. (C.R.E.)
differentialis Fernald. *Ibid.*, iv, 120. (C.R.E.)

Chilo Zincken.

densellus Zeller. N. A. Cramb., 79.
plejadellus Zincken. *Ibid.*, 78. (C.H.Y.)

Dicymolomia Zeller.

julianalis Walker. Cat. Brit. Mus., xvii, 438. (C.R.E.)

Galleria Fabricius.

mellonella Linnæus. Wax moth. Bee moth. Bur. Ent., Bull. 75, 19: Moth Book, 406.

Paralipsa Butler.

fulminalis Zeller. Verh. Zool-Bot. Ges. Wien., xxii, 560. (C.R.E.)
furellus Zeller. *Ibid.*, xxxiii, 212. (C.R.E.)

Achroia Haworth.

grisella Fabricius. Cat. Lep. Eur., ii, No. 3.

Epipaschia Clemens.

superatalis Clemens. Ent. Am., v, 51.

Oneida Hulst.

lunulalis Hulst. Ent. Am., iii, 130. (C.R.E.)

Benta Walker.

asperatella Clemens. Proc. Acad. Nat. Sci., Phila., 1860, 207. (C.R.E.)

Lanthape Clemens.

platanella Clemens. Proc. Acad. Nat. Sci. Phila., 1860, 207. (C.R.E.)

Wanda Hulst.

baptisiella Fernald. Ent. Am., iii, 128.

Tetralopha Zeller.

asperatella Clemens, form **nephelotella** Hulst. *clemensalis* Dyar. Ent. Am., v, 70.
militella Zeller. *Ibid.*, v, 71.
robustella Zeller. *diluculella. Ibid.*, v, 71.

Myelois Hübner.

obnupsella Hulst. Trans. Am. Ent. Soc., xvii, 118.

Acrobasis Zeller.*

angusella Grote. *cliello* Dyar. Proc. Wash. Ent. Soc., x, 43. (C.R.E.)

aurorella Ely. *Ibid.*, xii, 67.

betulella Hulst. Trans. Am. Ent. Soc., xvii, 125. (C.R.E.)

caryalbella Ely. Insec. Insc. Menst., i, 52. (C.R.E.)

caryæ Grote. Walnut bud moth. Rept. Conn. Agr. Expt. Sta., 1912, 253.

caryivorella Ragonot. Proc. Wash. Ent. Soc., x, 42.

comptoniella Hulst. *Ibid.*, x, 42.

coryliella Dyar. *Ibid.*, x, 47.

dyarella Ely. *Ibid.*, xii, 67. (C.R.E.)

feltella Dyar. *Ibid.*, xi, 214. (C.R.E.)

hebescella Hulst. *Ibid.*, x, 44. (C.R.E.)

irrubriella Ely. *Ibid.*, x, 161. (C.R.E.)

latifasciella Dyar. *Ibid.*, x, 45.

malipennella Dyar. *Ibid.*, x, 47. (C.R.E.)

nebulella Riley. *Mineola.* Rept. Ins. Mo., iv, 41. (C.R.E.)

normella Dyar. Proc. Wash. Ent. Soc., x, 46. (C.R.E.)

ostryella Ely. Insec. Insc. Menst., i, 54. (C.R.E.)

palliolella Ragonot. Trans. Am. Ent. Soc., xvii, 121. (C.R.E.)

rubrifasciella Packard. Ann. Lyc. Nat. Hist., N. Y., x, 267.

secundella Ely. Insec. Insc. Menst., i, 55. (C.R.E.)

stigmella Dyar. Proc. Wash. Ent. Soc., x, 43. (C.R.E.)

sylviella Ely. *Ibid.*, x, 48. (C.R.E.)

sp.?

Mineola Hulst.

indigenella Zeller. Apple leaf crumpler. Isis, 651: Moth Book, 409.

juglandis LeBaron. Ins. Ill., ii, 123. (C.R.E.)

vaccinii Riley. Cranberry fruit worm. Can. Ent., xvi, 237. (C.R.E.)

Dioryctria Zeller.

abietella Denis and Schiffermüller. Syst. Verz. Wien., x, 138.

reniculella Grote. N. A. Ent., i, 67. (C.R.E.)

* See also appendix.

Pinipestis Grote.

zimmermani Grote. Pine tip moth. Rept. Conn. Agr. Expt. sta., 1910, 122.

Tacoma Hulst.

nyssæcolella Dyar. Proc. Wash. Ent. Soc., vi, 112. (C.R.E.)

Glyptocera Ragonot.

consobrinella Zeller. Verh. Zool-Bot. Ges. Wien., 528. (C.R.E.)

Ortholepis Ragonot.

jugosella Ragonot. Diag. N. A. Phyc., 6. (C.R.E.)

Ambesa Grote.

busckella Dyar. Proc. Wash. Ent. Soc., vi, 108. (C.R.E.)

Nephopteryx Hübner.

fasciolalis Hulst. Trans. Am. Ent. Soc., xiii, 162. (C.R.E.)
gilvibasella Hulst. *Ibid.*, xvii, 145. (C.R.E.)
ovalis Packard. *latifasciella*. N. A. Ent., i, 11. (C.R.E.)
scobiella Grote. *Ibid.*, i, 51.

Meroptera Grote.

unicolorella Hulst. Ent. Am., iii, 136.

Salebria Zeller.

contatella Grote. N. A. Ent., i, 50.

Elasmopalpus Blanchard

lignosellus Zeller. Isis, 1848, 883.

Zophodia Hübner.

grossulariæ Riley. Gooseberry fruit worm. Trans. Am. Ent. Soc., xvii, 173.

Immyrla Dyar.

nigrovittella Dyar. Jour. N. Y. Ent. Soc., xiv, 108.

Euzophera Zeller.

ochrifrontella Zeller. Trans. Am. Ent. Soc., xvii, 177.
semifuneralis Walker. *Ibid.*, xvii, 175.

Vitula Ragonot.

edmandsii Packard. Trans. Am. Ent. Soc., xvii, 178. (C.R.E.)

Canarsia Hulst.

ulmiarrosorella Clemens. Trans. Am. Ent. Soc., xvii, 180.

Hulstea Ragonot.

undulatella Clemens. Trans. Am. Ent. Soc., xvii, 187.

Homœosoma Curtis.

mucidellum Ragonot. Trans. Am. Ent. Soc., xvii, 193. (C.R.E.)
reliquella Dyar. Proc. Wash. Ent. Soc., vi, 112.
uncanale Hulst. *Ibid.*, xvii, 192. (C.R.E.)

Ephestia Guenée.

kuehniella Zeller. Mediterranean flour moth. Special Rept. Minn. State Ent., 1904: Moth Book, 412.

Ephestiodes Ragonot.

infimella Ragonot. Trans. Am. Ent. Soc., xvii, 194. (C.R.E.)

Varneria Dyar.

postremella Dyar. Proc. Wash. Ent. Soc., vi, 115. (C.R.E.)

Eurythmia Ragonot.

angulella Ely. Proc. Wash. Ent. Soc., xii, 202. (C.R.E.)
diffusella Ely. *Ibid.*, xii, 202. (C.R.E.)
furnella Ely. *Ibid.*, xii, 202. (C.R.E.)
parvulella Ely. *Ibid.*, xii, 202. (C.R.E.)

Moodna Hulst.

ostrinella Clemens. Proc. Acad. Nat. Sci. Phila., 1860, 206.

Plodia Guenée.

interpunctella Hübner. Indian meal moth. Rept. Conn. Agr. Expt. Sta., 1905, 252: Moth Book, 415.

Atacosa Hulst.

glareosella Zeller. Trans. Am. Ent. Soc., xvii, 211.

Cayuga Hulst.

gemmatella Hulst. Ent. Am., iii, 134. (C.R.E.)

Peoria Ragonot.

approximella Walker. Cat. Brit. Mus., xxxv, 1722.

Bandera Ragonot.

binotella Zeller. Trans. Am. Ent. Soc., xvii, 202.

Family SESIIDÆ.

Sesia Fabricius.

bolteri Hy. Edwards. *Synanthedon.* Papilio, iii, 155.

scitula Harris. *Synanthedon.* Mon. N. A. Ses., 298: Moth Book, 387.

tipuliformis Clerck. *Synanthedon.* Mon. N. A. Ses., 285: Moth Book, 385.

Bembecia Hübner.

marginata Harris. Mon. N. A. Ses. 260: Moth Book, 383.

marginata var. **albicoma** Hulst. Mon. N. A. Ses., 262.

Synanthedon Hübner.

exitiosa Say. *Sanninoidea.* Peach borer. Rept. Conn. Agr. Expt. Sta., 1909-10, 359: Moth Book, 384.

pictipes Grote and Robinson. *Ægeria. Sesia.* Mon. N. A. Ses., 291.

Memythrus Newman.

asilipennis Boisduval. Mon. N. A. Ses., 252.

tricinctus Harris. *Ibid.*, 247.

Podosesia Mœschler.

syringæ Harris. Lilac borer. Mon. N. A. Ses., 244: Moth Book, 382.

Alcothoë Hy.-Edwards.

caudata Harris. Mon. N. A. Ses., 240: Moth Book, 382. (F.W.H.)

Melittia Hübner.

satyriniformis Hübner. Squash borer. Rept. Conn. Agr. Expt. Sta., 1907-08, 806: Moth Book, 380.

Family COSSIDÆ.

Prionoxystus Grote.

macmurtrei Guérin-Méneville. *Cossus. querciperda.* Ins. N. Y., Fourth Rept., Rept. N. Y. State Agr. Soc., 1857, 790.

robiniæ Peck. Carpenter worm. Ins. Aff. Park and Woodland Trees, 79: Moth Book, 378.

Zeuzera Latreille.

pyrina Linnæus. Leopard moth. Rept. Conn. Agr. Expt. Sta., 1911, 317: Moth Book, 376.

Family THYRIDÆ.

Thyris Laspeyres.

lugubris Boisduval. Spec. Gén. Pl. 14, f. 11, 1852: i, 490, 1874.
maculata Harris. Am. Jour. Sci., xxxvi, 313: Moth Book, 374.

Family PYROMORPHIDÆ.

Harrisina Packard.

americana Guérin-Méneville. Icon. Reg. An. Ins., 500: Moth Book, 372.

Pyromorpha Herrich-Schæffer.

dimidiata Herrich-Schæffer. Moth Book, 371.

Family MEGALOPYGIDÆ.

Lagoa Harris.

crispata Packard. Crinkled flannel moth. Proc. Phila. Ent. Soc., iii, 335: Moth Book, 369.

Family COCHLIDIIDÆ.

Tortricidia Packard.

flexuosa Grote. Jour. N. Y. Ent. Soc., vi, 94: Moth Book, 368.

Packardia Grote and Robinson.

elegans Packard. *nigripunctata*. Proc. Phila. Ent. Soc., iii, 342: Moth Book, 367. (C.R.E.)
elegans var. **fusca** Packard. Proc. Phila. Ent. Soc., iii, 343. (C.R.E.)
testacea Packard. *Ibid.*, iii, 348: Moth Book, 368. (C.R.E.)

Lithacodes Packard.

fasciola Herrich-Schæffer. Jour. N. Y. Ent. Soc., v, 1: Moth Book, 367.
fiskiana Dyar. Ent. News, xi, 333.

Cochlidion Hübner.

biguttata Packard. Jour. N. Y. Ent. Soc., v, 167: Moth Book, 367.
rectilinea Grote and Robinson var. **latomia** Harvey. Can. Ent. ix, 75: Moth Book, 367. (C.H.Y.)

Prolimacodes Schaus.

scapha Harris. Jour. N. Y. Ent. Soc., iv, 172: Moth Book, 367.

Phobetron Hübner.

pithecium Smith and Abbot. Hag-moth. Jour. N. Y. Ent. Soc., iv, 178: Moth Book, 366.

Sisyrosea Grote.

textula Herrich-Schæffer. *inornata.* Jour. N. Y. Ent. Soc., iv, 185: Moth Book, 366. (C.R.E.)

Adoneta Clemens.

spinuloides Herrich-Schæffer. Jour. N. Y. Ent. Soc., v, 5: Moth Book, 365.

Euclea Hübner.

chloris Herrich-Schæffer. *viridis.* Jour. N. Y. Ent. Soc., v, 61: Moth Book, 365.

delphinii Boisduval var. **interjecta** Dyar. Ent. News, ii, 61.

delphinii var. **querceti** Herrich-Schæffer. Samml. Ausser. Schmett., f. 174.

delphinii var. **viridiclava** Walker. Cat. Brit. Mus., v, 1154: Moth Book, 365. (C.H.Y.)

indeterminata Boisduval. *vernata.* Jour. N. Y. Ent. Soc., v, 10: Moth Book, 365. (C.H.Y.)

Sibine Herrich-Schæffer.

stimulea Clemens. *Empretia.* Saddle-back caterpillar. Jour. N. Y. Ent. Soc., iv, 1: Moth Book, 364.

Family PSYCHIDÆ.

Solenobia Zeller.

walshella Clemens. Proc. Phila. Ent. Soc., i, 132.

Eurycyttarus Hampson.

confederata Grote and Robinson. Trans. Am. Ent. Soc., ii, 191: Moth Book, 363.

Thyridopteryx Stephens.

ephemeræformis Haworth. Bag-worm. Bur. Ent., Circ. 97: Moth Book, 361.

Family LACOSOMIDÆ.

Lacosoma Grote.

chiridota Grote. Proc. Phila. Ent. Soc., iii, 78: Moth Book, 359.

Cicinnus Blanchard.

melsheimeri Harris. Ins. Inj. Veg., Flint Ed., 415: Moth Book, 359. (C.H.Y.)

Family EPIPLEMIDÆ.

Calledapteryx Grote.

dryopterata Grote. Trans. Am. Ent. Soc., ii, 120: Moth Book, 356. (C.R.E.)

Family GEOMETRIDÆ.

Brephos Ochsenheimer.

infans Mœschler. U. S. Nat. Mus., Bull., No. 44, 396: Moth Book, 355.

Abbotana Hulst.

clemataria Smith and Abbot. Mon. Geom., 561: Moth Book, 353. (F.W.H.)

Sabulodes Guenée.

arcasaria Walker. *depontanata*. Mon. Geom., 483: Moth Book, 353.

lorata Grote. Mon. Geom., 547: Moth Book, 353.

sulphurata Packard. Mon. Geom., 484: Moth Book, 353.

transversata Drury. Mon. Geom., 559: Moth Book, 353.

Tetracis Guenée.

crocallata Guenée. Mon. Geom., 548: Moth Book, 353.

Caberodes Guenée.

confusaria Hübner. Mon. Geom., 534: Moth Book, 352.

confusaria var. **metrocamparia** Guenée. Spec. Gén., ix, 137. (F.W.H.)

majoraria Guenée. Mon. Geom., 536: Moth Book, 352.

Syssaura Hübner.

infensata Guenée. Spec. Gén., ix, 67.

infensata var. **biclaria** Walker. *varus.* Mon. Geom., 538: Moth Book, 352.

Azelina Guenée.

ancetaria Hübner. *hubnerata.* Mon. Geom., 520: Moth Book, 352.

Priocycla Guenée.

armataria Herrich-Schæffer. Mon. Geom., 510: Moth Book, 351.

Metanema Guenée.

determinata Walker. Cat. Brit. Mus., xxxv, 1551: Moth Book, 351.

inatomaria Guenée. Mon. Geom., 543.

Eutrapela Hübner.

alciphearia Walker. Cat. Brit. Mus., xx, 184. (H.W.F.)

kentaria Grote. Trans. Am. Ent. Soc., i, 359. (C.R.E.)

Euchlæna Hübner.

effectaria Walker. Mon. Geom., 514.

johnsonaria Fitch. *bilinearia. Ibid.,* 511.

marginata Minot. *Ibid.,* 505: Proc. Bost. Soc. Nat. Hist., xi, 169.

obtusaria Hübner. Mon. Geom., 516: Moth Book, 350.

serrata Drury. *serrataria.* Mon. Geom., 517: Moth Book, 350.

vinulentaria Grote and Robinson. Mon. Geom., 506. (C.R.E.)

Gonodontis Hübner.

duaria Guenée. Mon. Geom., 502: Moth Book, 350.

hypochraria Herrich-Schæffer. Mon. Geom., 504: Moth Book, 350.

obfirmaria Hübner. Mon. Geom., 499: Moth Book, 350. (F.W.H.)

warneri Harvey. *apiciaria.* Mon. Geom., 502.

Ania Stephens.

limbata Haworth. *filamentaria.* Mon. Geom., 471: Moth Book, 349.

Hyperitis Guenée.

amicaria Herrich-Schæffer. *nyssaria.* Mon. Geom., 461: Moth Book, 349.

Plagodis Hübner.

keutzingaria Packard. Mon. Geom., 468: Moth Book, 349.
serinaria Herrich-Schæffer. Mon. Geom., 469: Moth Book, 349.

Xanthotype Warren.

crocataria Fabricius. Mon. Geom., 474: Moth Book, 349.

Ennomos Treitschke.

magnarius Guenée. *alniaria*. Mon. Geom., 529: Moth Book, 348.
subsignarius Hübner. *Eugonia*. Snow-white linden moth. Elm span-worm. Mon. Geom., 528: Moth Book, 348.

Eugonobapta Warren.

nivosaria Guenée. *nivosata*. Mon. Geom., 338: Moth Book, 348.

Metrocampa Latreille.

prægrandaria Guenée. *perlaria*. Mon. Geom., 491: Moth Book, 348.

Therina Hübner.

athasiaria Walker. *seminudaria*. Mon. Geom., 495: Moth Book, 348. (F.W.H.)
fervidaria Hübner. Mon. Geom., 493: Moth Book, 348.

Anagoga Hübner.

pulveraria Linnæus. Syst. Nat., 521.

Cingilia Walker.

catenaria Drury. Chain-dotted Geometer. Mon. Geom., 217: Moth Book, 347.

Erranis Hübner.

tiliaria Harris. *Hybernia*. Lime tree moth. Mon. Geom. 409: Moth Book, 347.

Phigalia Duponchel.

titea Cramer. Mon. Geom., 442: Moth Book, 347.

Nacophora Hulst.

quernaria Smith and Abbot. Mon. Geom., 411. (H.W.F.)

Lycia Hübner.

cognataria Guenée. Mon. Geom., 413: Moth Book, 345.
ursaria Walker. Mon. Geom., 414.

Epimecis Hübner.

virginaria Cramer. *hortaria.* Mon. Geom., 443: Moth Book, 344. (F.W.H.)

Ectropis Hübner.

crepuscularia Denis and Schiffermüller. Mon. Geom., 428: Moth Book, 344.

Æthaloptera Hulst.

intextata Walker. *anticaria.* Mon. Geom., 423. (C.R.E.)

Melanophia Hulst.

canadaria Guenée. *Tephrosia.* Mon. Geom., 425: Moth Book, 344.

Cleora Curtis.

larvaria Guenée. Mon. Geom., 437.
pampinaria Guenée. *Ibid.*, 432: Moth Book, 344.
takenaria Pearsall. Can. Ent., xli, 119.

Selidosema Hübner.

humarium Guenée. Mon. Geom., 435.
umbrosarium Hübner. *Ibid.*, 439. (H.W.F.)

Tornos Morrison.

scolopacinarius Guenée. Mon. Geom., 565. (C.R.E.)

Alcis Curtis.

multilineata Packard. Mon. Geom., 287.

Paraphia Guenée.

subatomaria Wood. Mon. Geom., 417.

Nepytia Hulst.

semiclusaria Walker. Cat. Brit. Mus., xxiv, 1506.

Catopyrrha Hübner.

coloraria Fabricius. Mon. Geom., 206: Moth Book, 342.
coloraria var. **dissimilaria** Hübner. Mon. Geom., 208: Moth Book, 342.

Apæcasia Hulst.

defluata Walker. Mon. Geom., 245: Moth Book, 342.
detersata Guenée. Mon. Geom., 243.

Homoclodes Hulst.

fritillaria Guenée. Mon. Geom., 489.

Cymatophora Hübner.

ribearia Fitch. Mon. Geom., 248: Moth Book, 340.

Macaria Curtis.

æquiferaria Walker. Mon. Geom., 295.
bisignata Walker. *Ibid.*, 290.
minorata Packard. *Ibid.*, 291. (C.R.E.)

Philobia Duponchel.

enotata Guenée. Mon. Geom., 288: Moth Book, 339. (F.W.H.)

Sciagraphia Hulst.

continuata Walker. *orillata.* Mon. Geom., 265. (C.R.E.)
granitata Guenée. *Ibid.*, 285.
heliothidata Guenée. *ocellinata. Ibid.*, 283: Moth Book, 339.

Deilinea Hübner.

erythremaria Guenée. Mon. Geom., 306.
liberaria Walker. *integraria. lintneraria. Ibid.*, 209. (C.R.E.)
variolaria Guenée. *intentata. Ibid.*, 306: Moth Book, 338.

Gueneria Packard.

basiaria Walker. *basiata.* Mon. Geom., 308.

Psysostegania Warren.

pustularia Guenée. Mon. Geom., 310: Moth Book, 338.

Heliomata Grote.

cycladata Grote. Proc. Phila. Ent. Soc., vi, 30: Moth Book, 338. (F.W.H.)

Anaplodes Packard.

iridaria Guenée. Mon. Geom., 394. (H.W.F.)
remotaria Walker. Cat. Brit. Mus., xxii, 530.

Aplodes Guenée.

mimosaria Guenée. Mon. Geom., 386, 388.
rubrifrontaria Packard. *Ibid.*, 386.

Synchlora Guenée.

ærata Fabricius. *glaucaria.* Mon. Geom., 392.
denticulata Walker. *excurvaria. Ibid.*, 381.

Eucrostis Hübner.

incertata Walker. *Nemoria gratata.* Mon. Geom., 372. (G.D.)

Nemoria Hübner.

subcroceata Walker. Mon. Geom., 372. (F.W.H.)

Chlorochlamys Hulst.

chloroleucaria Guenée. Mon. Geom., 370: Moth Book, 336.

Eois Hübner.

demissaria Hübner var. russata Hulst. Ent. Am., ii, 187.
inductata Guenée. Mon. Geom., 340: Moth Book, 335.
ossularia Hübner. *ossulata.* Mon. Geom. 329: Moth Book, 335.

Leptomeris Hübner.

quinquelinearia Packard. Mon. Geom., 348: Moth Book, 333. (C.H.Y.)

Cinglis Guenée.

purata Guenée. Mon. Geom., 353.
similaria Walker. *quadrilineata. Ibid.,* 345.

Synelis Hulst.

ennucleata Guenée. *alabastaria.* Mon. Geom., 347: Moth Book, 333.
ennucleata var. adornata Prout. Can. Ent., xxxix, 412.
ennucleata var. relevata Swett. *Ibid.,* xxxix, 141.

Cosymbia Hübner.

lumenaria Hübner. Mon. Geom., 365: Moth Book, 333.

Pleuroprucha Mœschler.

insulsaria Guenée. *Deptalia.* Mon. Geom., 335.

Erastria Hübner.

amaturaria Walker. Mon. Geom., 317: Moth Book, 333.

Hæmatopsis Hübner.

grataria Fabricius. Mon. Geom., 219: Moth Book, 332.

Petrophora Hübner.

ferrugata Clerck. *Xanthorhoë ferrugaria.* Mon. Geom., 146. (C.R.E.)

Gypsochroa Hübner.

designata Hufnagel. Mon. Geom., 144: Moth Book, 332.

Hydriomena Hübner.

latirupta Walker. Mon. Geom., 169: Moth Book, 331.
multiferata Walker. Mon. Geom., 81.

Mesoleuca Hübner.

implicata Guenée. *multilineata*. Mon. Geom., 71. (F.W.H.)
intermediata Guenée. Mon. Geom., 157: Moth Book, 330.
lacustrata Guenée. Mon. Geom., 158: Moth Book, 330.
ruficilliata Guenée. Mon. Geom., 153: Moth Book, 330.

Orthonama Hübner.

Percnoptilota Hulst.

obstipata Fabricius. *fluviata* Hübner. Mon. Geom., 78: Moth Book, 330.

Rheumaptera Hübner.

hastata Linnæus. Mon. Geom., 164: Moth Book, 329.

Eustroma Hübner.

diversilineata Hübner. Mon. Geom., 126: Moth Book, 329.
diversilineata var. **gracilineata** Guenée. Spec. Gén., x, 476.

Hydria Hübner.

undulata Linnæus. *Calocalpe*. Mon. Geom., 172: Moth Book, 329.

Euchœca Hübner.

albovittata Guenée. Mon. Geom., 189: Moth Book, 328.

Venusia Curtis.

comptaria Walker. Cat. Brit. Mus., xxi, 406; Moth Book, 328.

Eucymatoge Hübner.

intestinata Guenée. Mon. Geom., 170: Moth Book, 328.

Eupithecia Curtis.

conformata Pearsall. *Tephroclystis*. Ent. News. xix, 128.
interruptofasciata Packard. Rept. Peab. Acad. Sci., v, 59.
miserulata Grote. Proc. Phila. Ent. Soc., ii, 32.
nebulosa Hulst. Trans. Am. Ent. Soc., xxiii, 266.
packardata Taylor. *absinthiata*. Mon. Geom., 49. (L.W.S.)

Heterophleps Herrich-Schæffer.

triguttaria Herrich-Schæffer. Mon. Geom., 193: Moth Book, 327.

Eudule Hübner.

mendica Walker. Beggar. Cat. Brit. Mus., ii, 576: Moth Book, 327.

Alsophila Hübner.

pometaria Harris. Fall canker worm. Rept. Conn. Agr. Expt. Sta., 1908, 783: Moth Book, 326.

Paleacrita Riley.

vernata Peck. Spring canker worm. Rept. Conn. Agr. Expt. Sta., 1908, 782: Moth Book, 324.

Nyctobia Hulst.

limitata Walker. Mon. Geom., 457: Moth Book, 324.

Dyspteris Hübner.

abortivaria Herrich-Schæffer. Mon. Geom., 368: Moth Book, 323.

Family PLATYPTERYGIDÆ.

Falcaria Haworth.

bilineata Packard. Proc. Phila. Ent. Soc., iii, 376: Moth Book, 321.

Drepana Schrank.

arcuata Walker. Cat. Brit. Mus., v, 1164: Moth Book, 321.

Oreta Walker.

irrorata Packard. Moth Book, 321.

rosea Walker. *Ibid.*, 321.

Eudeilinea Packard.

herminiata Guenée. Spec. Gén., x, 58.

Family LASIOCAMPIDÆ.

Epicnaptera Rambur.

americana Harris. *Gastropacha.* Moth Book, 314.

Malacosoma Hübner.

americana Fabricius. *Clisiocampa.* Tent-caterpillar. Conn. Agr. Expt. Sta., Rept. 1902, 142; 1913, 226; Bull. 177: Moth Book, 312.

disstria Hübner. *Clisiocampa sylvatica.* Forest tent-caterpillar. N. Y. Agr. Expt. Sta., Bull. 159: Moth Book, 313.

Tolype Hübner.

velleda Stoll. Moth Book, 312.

Family LIPARIDÆ.

Euproctis Hübner.

chrysorrhœa Linnæus. Brown-tail moth. Conn. Agr. Expt. Sta., Rept., 1907, 313; Bull. 182; Moth Book, 309.

Porthetria Hübner.

dispar Linnæus. *Ocneria.* Gipsy moth. Conn. Agr. Expt. Sta., Rept., 1905, 246; Bull. 186: Moth Book, 308.

Olene Hübner.

achatina Smith and Abbot. Lep. Ins. Ga., ii, 77: Moth Book, 308.

cinnamonea Grote. Proc. Phila. Ent. Soc., vi, 6.

atomaria Walker. *obliquata.* Contr. Nat. Hist. Lepidop., ii, 67; Proc. Phila. Ent. Soc., vi, 4.

atomaria var. **parallela** Grote and Robinson. Contr. Nat. Hist. Lepidop, ii, 69.

leucophæa Smith and Abbot. Lep. Ins. Ga., ii, 78: Moth Book, 308.

plagiata Walker. *pinicola* Dyar. Cat. Brit. Mus., iv, 109.

Hemerocampa Dyar.

definita Packard. *Orgyia.* Proc. Phila. Ent. Soc., iii, 332: Moth Book, 308. (C.R.E.)

leucostigma Smith and Abbot. *Orgyia.* White-marked tussock moth. Rept. Conn. Agr. Expt. Sta., 1905, 230: Moth Book, 306.

Notolophus Germar.

antiqua Linnæus. Rusty tussock moth. Moth Book, 306.

Family THYATIRIDÆ.

Pseudothyatira Grote.

cymatophoroides Guenée. Spec. Gén., v, 13: Moth Book, 304.

expultrix Grote. Proc. Phila. Ent. Soc., ii, 58: Moth Book, 304.

Habrosyne Hübner.

scripta Gosse. *Thyatira.* Cat. Noc., 27: Moth Book, 303.

Family NOTODONTIDÆ.

Ellida Grote.

caniplaga Walker. Bomb. Moths, 169: Moth Book, 300.

Gluphisia Boisduval.

septentrionalis Walker. Bomb. Moths, 90: Moth Book, 300.

Fentonia Butler.

marthesia Cramer. Bomb. Moths, 257: Moth Book, 300.

Harpyia Ochsenheimer.

borealis Boisduval. Bomb. Moths, 264: Moth Book, 299.
cinerea Walker. Bomb. Moths, 273: Moth Book, 299.

Cerura Schrank.

scitiscripta Walker var. **multiscripta** Riley. Bomb. Moths, 276: Moth Book, 299.

Hyparpax Hübner.

aurora Smith and Abbot. Bomb. Moths, 284: Moth Book, 299.

Schizura Doubleday.

badia Packard. Bomb. Moths, 208: Moth Book, 299.
concinna Smith and Abbot. Red-humped caterpillar. Bomb. Moths, 212: Moth Book, 298.
ipomœæ Doubleday. Bomb. Moths, 194: Moth Book, 298.
ipomœæ var. **cinereofrons** Packard. Proc. Phila. Ent. Soc., iii, 366.
leptinoides Grote. Bomb. Moths, 199: Moth Book, 299.
semirufescens Walker. *eximia*. Bomb. Moths, 210: Cat. Brit. Mus., xxxii, 450.
unicornis Smith and Abbot. Bomb. Moths, 203; Moth Book, 298.

Ianassa Walker.

lignicolor Walker. Bomb. Moths, 189: Moth Book, 298.

Misogada Walker.

unicolor Packard. *Heterocampa*. Bomb. Moths, 254: Moth Book, 297.

Heterocampa Doubleday.

bilineata Packard. Bomb. Moths, 218: Moth Book, 297.

biundata Walker. Bomb. Moths, 235: Moth Book, 297.

guttivitta Walker. Saddled prominent. Bomb. Moths, 230: Me. Agr. Expt. Sta., Bull. 161.

manteo Doubleday. Bomb. Moths, 224: Moth Book, 297. (C.R.E.)

obliqua Packard var. **trouvelottii** Packard. Proc. Phila. Ent. Soc., iii, 369.

umbrata Walker. Bomb. Moths, 249. (A.B.C.)

Symmerista Hübner.

albifrons Smith and Abbot. Bomb. Moths, 179: Moth Book, 296.

Nerice Walker.

bidentata Walker. Bomb. Moths, 171: Moth Book, 296.

Nadata Walker.

gibbosa Smith and Abbot. Bomb. Moths, 142: Moth Book, 296.

Lophodonta Packard.

angulosa Smith and Abbot. Bomb. Moths, 147: Moth Book, 295.

ferruginea Packard. Bomb. Moths, 150: Moth Book, 295. (F.W.H.)

Hyperæschra Butler.

georgica Herrich-Schæffer. *Drymonia.* Bomb. Moths, 153: Moth Book, pl. xl, 7.

stragula Grote. *Notodonta.* Bomb. Moths, 165: Moth Book, pl. xl, 1.

Pheosia Hübner.

rimosa Packard. *dimidiata.* Bomb. Moths, 158: Moth Book, 295.

Datana Walker.

angusii Grote and Robinson. Bomb. Moths, 110: Moth Book, 293.

contracta Walker. Bomb. Moths, 122.

integerrima Grote and Robinson. Bomb. Moths, 120: Moth Book, 294.

major Grote and Robinson. Bomb. Moths, 113.
ministra Drury. Yellow-necked caterpillar. Bomb. Moths, 106: Moth Book, 293.
perspicua Grote and Robinson. Bomb. Moths, 117: Moth Book, 294.

Melalopha Hübner.

albosigma Fitch. Bomb. Moths, 138: Moth Book, 293.
albosigma var. **specifica** Dyar. Can. Ent., xxiv, 180.
apicalis Walker. *vau.* Bomb. Moths, 125: Moth Book, 293.
inclusa Hübner. *Ichthyura americana.* Bomb. Moths, 131: Moth Book, 293.
inclusa var. **inversa** Packard. *palla.* Proc. Phila. Ent. Soc., iii, 352. (H.W.F.)
strigosa Grote. Bomb. Moths, 130. (H.W.F.)

Apatelodes Packard.

angelica Grote. Bomb. Moths, 103: Moth Book, 293.
torrefacta Smith and Abbot. Bomb. Moths, 100: Moth Book, 292.

Family NOCTUIDÆ.

Hypena Schrank.

humuli Harris. U. S. Nat. Mus. Bull. No. 48, 114: Moth Book, 287.

Plathypena Grote.

scabra Fabricius. Green clover worm. Rept. Conn. Agr. Expt. Sta., 1908-9, 828: 1919, 165: Moth Book, 287.

Bomolocha Hübner.

abalinealis Walker. U. S. Nat. Mus. Bull., No. 48, 100: Moth Book, 286.
atomaria Smith. Trans. Am. Ent. Soc., xxix, 216. (L.B.W.)
baltimoralis Guenée. U. S. Nat. Mus. Bull., No. 48, 96: Moth Book, 286.
bijugalis Walker. U. S. Nat. Mus. Bull., No. 48, 97: Moth Book, 286.
madefactalis Guenée. *profecta.* U. S. Nat Mus. Bull., No. 48: 102: Moth Book, 286.
manalis Walker. U. S. Nat. Mus. Bull., No. 48, 95: Moth Book, 286.

scutellaris Grote. U. S. Nat. Mus. Bull., No. 48, 98: Moth Book, 286.

toreuta Grote. U. S. Nat. Mus. Bull., No. 105; Moth Book, 286.

Lomanaltes Grote.

eductalis Walker. U. S. Nat. Mus. Bull., No. 48, 109: Moth Book, 285.

Salia Hübner.

interpuncta Grote. U. S. Nat. Mus. Bull., No. 48, 90: Trans. Am. Ent. Soc., iv, 93.

Capis Grote.

curvata Grote. Can. Ent., xiv, 20: Moth Book, 285.

Palthis Hübner.

angulalis Hübner. U. S. Nat. Mus. Bull., No. 48, 86: Moth Book, 285.

asopialis Guenée. U. S. Nat. Mus. Bull., No. 48, 87: Moth Book, 285.

Dircetis Grote.

vitrea Grote. Bull. Geol. Geog. Surv. Terr., iv, 186.

Gaberasa Walker.

ambigualis Walker. U. S. Nat. Mus., Bull. No. 48, 81: Moth Book, 284.

Heterogramma Guenée.

pyramusalis Walker. U. S. Nat. Mus. Bull., No. 48, 79: Moth Book, 284.

Menopsimus Dyar.

caducus Dyar. Jour. N. Y. Ent. Soc., xv, 110.

Tetanolita Grote.

floridana Smith. U. S. Nat. Mus. Bull., No. 48, 63.

Bleptina Guenée.

caradrinalis Guenée. U. S. Nat. Mus. Bull., No. 48, 58: Moth Book, 283.

Renia Guenée.

clitosalis Walker. U. S. Nat. Mus. Bull., No. 48, 72.

discoloralis Guenée. *Ibid.*, No. 48, 69: Moth Book, 283.

factiosalis Walker. U. S. Nat. Mus. Bull., No. 48, 73.

flavipunctalis Geyer. *Ibid.*, No. 48, 74.

Chytolita Grote.

morbidalis Guenée. U. S. Nat. Mus. Bull., No. 48, 56: Moth Book, 282.

Philometra Grote.

eumelusalis Walker. U. S. Nat. Mus. Bull., No. 48, 53.

hanhami Smith. Can. Ent., xxxi, 207. (C.R.E.)

Hormisa Walker.

absorptalis Walker. U. S. Nat. Mus. Bull., No. 48, 46: Moth Book, 282.

litophora Grote. U. S. Nat. Mus. Bull., No. 48, 48.

Zanclognatha Lederer.

cruralis Guenée. U. S. Nat. Mus. Bull., No. 48, 40.

lævigata Grote. *Ibid.*, No. 48, 36: Moth Book, 281.

lævigata var. reversata Dyar. U. S. Nat. Mus. Bull. No. 52, 241. (C.R.E.)

lituralis Hübner. U. S. Nat. Mus. Bull., No. 48, 32: Moth Book, 281.

marcidilinea Grote. U. S. Nat. Mus. Bull., No. 48, 43: Trans. Am. Ent. Soc., iv, 97.

ochreipennis Grote. U. S. Nat. Mus. Bull., No. 48, 44: Moth Book, 281.

pedipilalis Guenée. U. S. Nat. Mus. Bull., No. 48, 39.

Epizeuxis Hübner.

æmula Hübner. U. S. Nat. Mus. Bull., No. 48, 26: Moth Book, 281.

americalis Guenée. U. S. Nat. Mus. Bull., No. 48, 23: Moth Book, 281.

denticulalis Harvey. U. S. Nat. Mus. Bull., No. 48, 19: Moth Book, 281.

diminuendis Barnes and McDunnough. *Camptylochila.* Contr. Nat. Hist. Lepidop., iv, 126.

humerata Smith. Ann. N. Y. Acad. Sci., xviii, 123. (C.R.E.)

julia Barnes and McDunnough. *Camptylochila.* Contr. Nat. Hist. Lepidop., iv, 126.

lubricalis Geyer. U. S. Nat. Mus. Bull., No. 48, 17: Moth Book, 281.

majoralis Smith. U. S. Nat. Mus. Bull., No. 48, 25. (C.R.E.)

merricki Smith. Can. Ent., xxxvii, 260.

rotundalis Walker. U. S. Nat. Mus. Bull., No. 48, 20.

scobialis Grote. *Ibid.*, No. 48, 21: Moth Book, 281.

Erebus Latreille.

odora Linnæus. Moth Book, 279.

Phæocyma Hübner.

æruginosa Guenée. *Ypsia.* Proc. U. S. Nat. Mus., xxxv, 233.

cingulifera Walker *Homoptera. woodii. Ibid.*, xxxv, 261. (H.W.F.)

halata Smith. Proc. U. S. Nat. Mus., xxxv, 252. (A.B.C.)

horrida Hübner. *Zale. Ibid.*, xxxv, 270: Moth Book, 277.

lunata Drury. *Homoptera. Edusa.* Proc. U. S. Nat. Mus., xxxv, 225: Moth Book, 278.

minerea Guenée. *Homoptera.* Proc. U. S. Nat. Mus., xxxv, 238. (H.W.F.)

undularis Drury. *Ypsia. Ibid.*, xxxv, 231: Moth Book, 278.

unilineata Grote. *Homoptera.* Proc. U. S. Nat. Mus., xxxv, 245: Moth Book, 278.

Strenoloma Grote.

lunilinea Grote. Bull. Buff. Soc. Nat. Sci., i, 127: Moth Book, 276. (C.R.E.)

Celiptera Guenée.

frustulum Guenée. Moth Book, 275.

Remigia Guenée.

repanda Fabricius. Moth Book, 274. (C.H.Y.)

Agnomonia Hübner.

analis Drury. Moth Book, 275. (C.R.E.)

Parallelia Hübner.

bistriaris Hübner. Moth Book, 273.

Panapoda Guenée.

rufimargo Hübner. Moth Book, 273.

rufimargo var. **carneicosta** Guenée. Moth Book, 273.

Phoberia Hübner.

atomaris Hübner. Moth Book, 273.

Euparthenos Grote.

nubilis Hübner. Moth Book, 272.

Allotria Hübner.

elonympha Hübner. Moth Book, 272.

Catocala Schrank.

amatrix Hübner. Moth Book, 263.

amatrix var. nurus Walker. *Ibid.*, 263. (C.R.E.)

amica Hübner. *Ibid.*, 269.

amica var. androphila Guenée. Trans. Am. Ent. Soc., iv, 18. (C.R.E.)

amica var. lineella Grote. *Ibid.*, iv, 18: Moth Book, 269.

amica var. nerissa Hy. Edwards. Bull. Brook. Ent. Soc., iii, 61: Moth Book, 269. (C.H.Y.)

antinympha Hübner. Trans. Am. Ent. Soc., iv, 13: Moth Book, 267.

badia Grote and Robinson. Proc. Phila. Ent. Soc., vi, 22: Moth Book, 267.

blandula Hulst. *polygama.* Trans. Am. Ent. Soc., iv, 15.

briseis Edwards. Proc. Phila. Ent. Soc., ii, 508: Moth Book, 264.

cara Guenée. Trans. Am. Ent. Soc., iv, 7: Moth Book, 263.

cara var. carissima Hulst. Bull. Brook. Ent. Soc., ii, 97. (C.R.E.)

cerogama Guenée. Trans. Am. Ent. Soc., iv, 9: Moth Book, 266.

coccinata Grote. Trans. Am. Ent. Soc., iv, 6: Moth Book, 265.

concumbens Walker. Trans. Am. Ent. Soc., iv, 7: Moth Book, 263.

dejecta Strecker. Bull. Brook. Ent. Soc., ii, 97: Moth Book, 261.

epione Drury. Trans. Am. Ent. Soc., iv, 2: Moth Book, 260.

gracilis Edwards. Proc. Phila. Ent. Soc., ii, 511: Moth Book, 269.

grynea Cramer. Trans. Am. Ent. Soc., iv, 16: Moth Book, 269.

habilis Grote. Trans. Em. Ent. Soc., iv, 11: Moth Book, 268.

ilia Cramer. Trans. Am. Ent. Soc., iv, 8: Moth Book, 265.

ilia, var. uxor Guenée. Moth Book, 265.

innubens Guenée. Spec. Gén., vii, 98: Moth Book, 265. (F.W.H.)

innubens var. flavidalis Grote. Trans. Am. Ent. Soc., v, 95. (F.W.H.)

marmorata Edwards. Proc. Phila, Ent. Soc., ii, 508: Moth Book, 263. (C.R.E.)

micronympha Guenée var. **fratercula** Grote and Robinson. Proc. Phila. Ent. Soc., vi, 24: Moth Book, 269.

micronympha var. **gisela** Meyer. Bull. Brook. Ent. Soc., ii, 96: Moth Book, 269.

neogama Smith and Abbot. Trans. Am. Ent. Soc., iv, 9: Moth Book, 266.

paleogama Guenée. Trans. Am. Ent. Soc., iv, 10: Moth Book, 266.

paleogama var. **annida** Fager. Can. Ent., xiv, 120.

parta Guenée. Trans. Am. Ent. Soc., iv, 6: Moth Book, 264.

piatrix Grote. Trans. Am. Ent. Soc., iv, 10: Moth Book, 266.

præclara Grote and Robinson. Proc. Phila. Ent. Soc., vi, 25: Moth Book, 269.

relicta Walker. Trans. Am. Ent. Soc., iv, 4: Moth Book, 262. (C.R.E.)

relicta var. **bianca** Hy. Edwards. Bull. Brook. Ent. Soc., iii, 54: Moth Book, 262.

relicta var. **clara** Beutenmüller. Bull. Am. Mus. Nat. Hist., xix, 506.

relicta var. **phrynia** Hy. Edwards. Bull. Brook. Ent. Soc., iii, 54. (C.R.E.)

residua Grote. Proc. Bost. Soc. Nat. Hist., xvi, 242.

retecta Grote. Trans. Am. Ent. Soc., iv, 4: Moth Book, 262.

robinsonii Grote. Trans. Am. Ent. Soc., iv, 20: Moth Book, 262.

sancta Hulst. *connubialis. amasia.* Trans. Am. Ent. Soc., iv, 16: Moth Book, 268.

subnata Grote. Trans. Am. Ent. Soc., iv, 9: Moth Book, 266. (C.R.E.)

tristis Edwards. Proc. Phila. Ent. Soc., ii, 511: Moth Book, 262.

ultronia Hübner. Moth Book, 265.

ultronia var. **adriana** Hy. Edwards. Bull. Brook. Ent. Soc., iii, 57.

unijuga Walker. Trans. Am. Ent. Soc., iv, 5: Moth Book, 264.

vidua Smith and Abbot. *viduata.* Trans. Am. Ent. Soc., iv, 3: Moth Book, 261.

Syneda Guenée.

graphica Hübner. Moth Book, 259.

Meliopotis Hübner.

limbolaris Geyer. Moth Book, 258.

Euclidea Ochsenheimer.

cuspidea Hübner. Moth Book, 258.

Drasteria Hübner.

crassiuscula Haworth. Lep. Brit., 259: Moth Book, 257. (C.H.Y.)

erechtea Cramer. Moth Book, 257.

Homopyralis Grote.

contracta Walker. *tactus*. Moth Book, 256.

discalis Grote. Can. Ent., viii, 206.

Melanomma Grote.

auricinctaria Grote. Trans. Am. Ent. Soc., v, 117.

Hyamia Walker.

perditalis Walker. *Spargoloma umbrifascia*. Moth Book, 254.

Pangrapta Hübner.

decoralis Hübner. Moth Book, 254.

Phalænostola Grote.

larentioides Grote. Trans. Am. Ent. Soc., iv, 302: Moth Book, 254.

Cydosia Westwood.

aurivitta Grote and Robinson. Trans. Am. Ent. Soc., ii, 186: Moth Book, 253.

Euherrichia Grote.

mollissima Guenée. Moth Book, 253.

Metathorasa Moore.

monetifera Guenée. Spec. Gén., vi, 295: Moth Book, 252. (F.W.H.)

Tarache Hübner.

candefacta Hübner. *Acontia*. Trans. Am. Ent. Soc., xxvii, 82.

delecta Walker. *Ibid.*, xxvii, 60: Moth Book, 251.

erastrioides Guenée. Trans. Am. Ent. Soc., xxvii, 71: Moth Book, 251.

Characoma Walker.

nilotica Rogenhofer. *Nycteola protecella* Dyar. Jour. N. Y. Ent. Soc., vi, 40.

Sarrothripus Curtis.

revayana Scopoli. *Nycteola revayana.* Ann. Hist. Nat., v, 116.

Chamyris Guenée.

cerintha Treitschke. Moth Book, 250.

Thalpochares Lederer.

fractilinea Smith. Ann. N. Y. Acad. Sci., xviii, 125.

Prothymia Hübner.

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puncticosta Smith. *Ibid.*, xviii, 122.
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Phiprosopus Grote.

callitrichoides Grote. Trans. Am. Ent. Soc., iv, 90: Moth Book, 245.

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Amolita Grote.

fessa Grote. Bull. Buff. Soc. Nat. Sci., ii, 158: Moth Book, 244.

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Psychomorpha Harris.

epimenis Drury. Jour. N. Y. Ent. Soc., ii, 19: Moth Book, 232.

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arcifera Guenée. Spec. Gén., vi, 184: Moth Book, 228.
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Atethmia Hübner.

rectifascia Grote. Proc. Bost. Soc. Nat. Hist., xvi, 242. (H.W.F.)

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tristigmata Grote. Can. Ent., ix, 156.
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Orthosia Ochsenheimer.

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helva Grote. Bull. Buff. Soc. Nat. Sci., ii, 310: Moth Book, 217.
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baptisiæ Bird. *Hydræcia. Ibid.*, xxxiv, 109.
cataphracta Grote. *Hydræcia.* Trans. Am. Ent. Soc., xxvi, 41: Moth Book, 214.
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duovata Bird. Can. Ent., xxxiv, 115. (H.B.)
duplicata Bird. *Ibid.*, xl, 25. (H.B.)
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inquæsita Grote and Robinson. *Ibid.*, i, 344: Moth Book, 213.
marginidens Guenée. *birdii.* Spec. Gén., v, 123.
maritima Bird. Can. Ent., xli, 59. (H.B.)
nitela Guenée. Trans. Am. Ent. Soc., xxvi, 34.
nitela var. **nebris** Guenée. *Ibid.*, xxvi, 34: Moth Book, 213.
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purpurifascia Grote and Robinson. Trans. Am. Ent. Soc., xxvi, 33. (H.B.)
rigida Grote. Can. Ent., ix, 87. (C.R.E.)
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Gortyna Ochsenheimer.

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cineritia Grote. Proc. Acad. Nat. Sci. Phila., 1874, 210.

curvimacula Morrison. Bull. Buff. Soc. Nat. Sci., ii, 191: Moth Book, 208.

nupera Lintner. Bull. Buff. Soc. Nat. Sci., ii, 188: Moth Book, 208.

Xylina Ochsenheimer.

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subterminata Smith. Proc. U. S. Nat. Mus., x, 476.

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pseudargyria Guenée. Moth Book, 201.
unipuncta Haworth. Army worm. Rept. Conn. Agr. Expt. Sta., 1914, 157: Moth Book, 200.

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cuneata Grote. *Ibid.*, xvi, 261.
detracta Walker. *Ibid.*, xiv, 211: Moth Book, 192.
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goodellii Grote. Can. Ent., vii, 223.
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picta Harris. Proc. U. S. Nat. Mus., xvi, 231: Moth Book, 193.

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renigera Stephens. Proc. U. S. Nat. Mus., xvi, 250: Moth Book, 195.

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subjuncta Grote and Robinson. Proc. U. S. Nat. Mus., xvi, 223: Moth Book, 193.

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bostoniensis Grote. Proc. Acad. Nat. Sci., Phila., 1874, 203.

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perpolita Morrison. *Euxoa. Carneades.* U. S. Nat. Mus. Bull., 38, 151: Moth Book, 188.

redimicula Morrison. *Euxoa. Carneades.* U. S. Nat. Mus. Bull., 38, 202: Moth Book, 190.

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haruspica Grote. Bull. Buff. Soc. Nat. Sci., ii, 212: Moth Book, 184. (C.H.Y.)

lubricans Guenée. U. S. Nat. Mus. Bull., 38, 96: Moth Book, 185.

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badinodis Grote. Can. Ent., vi, 13: Moth Book, 181. (E.F.)

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fishi Grote. Bull. Geol. Surv. Terr., iv, 175.

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Eueretagrotis Smith.

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Eutolype Grote.

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cubilis Grote. Proc. U. S. Nat. Mus., xv, 63: Moth Book, 177.

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perscripta Guenée. Spec. Gen., vi, 174.

Magusa Walker.

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Laphygma Guenée.

frugiperda Smith and Abbot. Fall army worm. Rept. Conn. Agr. Expt. Sta., 1912, 284: Moth Book, 174.

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Heliotropha Lederer.

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cariosa Guenée. Proc. U. S. Nat. Mus., xiii, 438.

cogitata Smith. *Ibid.*, xiii, 421. (E.F.)

devastatrix Brace. *Ibid.*, xiii, 426: Moth Book, 169.

diversicolor Morrison. Proc. Bost. Soc. Nat. Hist., xvii, 132.

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finitima Guenée. Proc. U. S. Nat. Mus., xiii, 419. (C.H.Y.)

fractilinen Grote var. vulgivaga Morrison. Can. Ent., vi, 15.

impulsa Guenée. *Ibid.*, xiii, 425. (H.W.F.)

lignicolor Guenée. *Ibid.*, xiii, 442: Moth Book, 169.

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miseloides Guenée. Moth Book, 167.

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passer Guenée. Proc. U. S. Nat. Mus., xiii, 411.

remissa Hübner. *Ibid.*, xiii, 414. (C.R.E.)

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semicana var. fractilinea Grote. Can. Ent., vi, 15: Moth Book, 168.

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algens Grote. Can. Ent., x, 236.
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Oligia Hübner.

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Caradrina Ochsenheimer.

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Anorthodes Smith.

prima Smith. Trans. Am. Ent. Soc., xviii, 115: Moth Book, 164. (C.R.E.)

Balsa Walker.

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tristigella Walker. *zelleri.* Cat. Brit. Mus., xxxv, 1734.

Platysenta Grote.

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Baileya Grote.

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hamamelis Guenée. *Ibid.*, xxi, 141.

hasta Guenée. *Ibid.*, xxi, 87.

hastulifera Smith and Abbot. *Ibid.*, xxi, 47.

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sperata Grote. *Ibid.*, xxi, 154.

vinnula Grote. *Ibid.*, xxi, 93: Moth Book, 156.

xyliniformis Guenée. *longa*. Proc. U. S. Nat. Mus., xxi, 166.

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deridens Guenée. Proc. U. S. Nat. Mus., xxi, 25: Moth Book, 152.

Demas Stephens.

flavicornis Smith. Bull. Brook. Ent. Soc., vii, 3.

propinquilinea Grote. *Charadra.* Trans. Am. Ent. Soc., iv, 293.

Family AGARISTIDÆ.

Alypia Hübner.

octomaculata Fabricius. Eight-spotted forester. Bull. Am. Mus. Nat. Hist., x, 357: Moth Book, 144.

Family ARCTIIDÆ.

Halisidota Hübner.

caryæ Harris. Hickory tussock moth. Rept. Conn. Agr. Expt. Sta., 1907, 332: Moth Book, 138.

tessellaris Smith and Abbot. Bull. Am. Mus. Hist., x, 370: Moth Book, 137.

Euchætias Lyman.

egle Drury. Milk-weed moth. Bull. Am. Mus. Nat. Hist., x, 368: Moth Book, 135.

Ammalo Walker.

tenera Hübner. *collaris.* Bull. Am. Mus. Nat. Hist., x, 368.

Apantesis Walker.

anna Grote var. **persephone** Grote. Proc. Ent. Soc., Phila., ii, 433.

arge Drury. *Arctia.* Bull. Am. Mus. Nat. Hist., x, 379: Moth Book, 130.

figurata Drury. Moth Book, 132. (H.W.F.)

intermedia Stretch. Bull. Am. Mus. Nat. Hist., x, 379: Moth Book, 129. (C.H.Y.)

michabo Grote. *Arctia.* Bull. Am. Mus. Nat. Hist., x, 380: Moth Book, 130. (A.H.Me.)

nais Drury. *Arctia.* Bull. Am. Mus. Nat. Hist., x, 381.

parthenice Kirby. *Arctia. Ibid.,* x, 379: Moth Book, 129.

phyllira Drury. *Arctia.* Bull. Am. Mus. Nat. Hist., x, 380: Moth Book, 132.

virgo Linnæus. *Arctia.* Bull. Am. Mus. Nat. Hist., x, 377: Moth Book, 129.

virguncula Kirby. *Arctia.* Bull. Am. Mus. Nat. Hist., x, 378: Moth Book, 131.

vittata Fabricius. *Arctia.* Hist., x, 381: Bull. Am. Mus. Nat. Moth Book, 132. (A.H.Me.)

Diacrisia Hübner.

latipennis Stretch. *Spilosoma.* Bull. Am. Mus. Nat. Hist., x, 375: Moth Book, 128.

virginica Fabricius. Virgin tiger moth. Bull. Am. Mus. Nat. Hist., x, 374: Moth Book, 127.

Phragmatobia Stephens.

fuliginosa Linnæus. *rubricosa.* Bull. Am. Mus. Nat. Hist., x, 373: Moth Book, 126.

Isia Walker.

isabella Smith and Abbot. *Pyrrharctia.* Isabella tiger moth. Bull. Am. Mus. Nat. Hist., x, 373: Moth Book, 125.

Hyphantria Harris.

cunea Drury. Fall web worm. Bull. Am. Mus. Nat. Hist., x, 376: Moth Book, 123.

textor Harris. Rept. Ins. Mass., 255: Moth Book, 124.

Estigmene Hübner.

acræa Drury. *Leucarctia.* Salt march caterpillar. Bull. Am. Mus. Nat. Hist., x, 372: Moth Book, 123.

congrua Walker. *antigone.* Cat. Brit. Mus., iii, 669: Moth Book, 123. (C.H.Y.)

Ecpantheria Hübner.

deflorata Fabricius. *scribona. ocularia.* Bull. Am. Mus. Nat. Hist., x, 372: Moth Book, 120.

Haploa Hübner.

clymene Brown. *Callimorpha.* Bull. Am. Mus. Nat. Hist., x, 366: Moth Book, 118.

lecontei Boisduval var. militaris Harris. Bull. Am. Mus. Nat. Hist., x, 366: Moth Book, 118.

Utetheisa Hübner.

bella Linnæus. Bull. Am. Mus. Nat. Hist., x, 367: Moth Book, 117.

Eubaphe Hübner.

aurantiaca Hübner var. **ferruginosa** Walker. *Homomelina.* Bull. Am. Mus. Nat. Hist., x, 365.

immaculata Reakirt. Proc. Phila. Ent. Soc., ii, 372.

immaculata var. **trimaculosa** Reakirt. Proc. Ent. Soc., Phila., ii, 372.

Rœselia Hübner.

minuscula Zeller var. **phylla** Dyar. Jour. N. Y. Ent. Soc., vi, 43.

Nigetia Walker.

formosalis Walker. *melanopa.* Cat. Brit. Mus., xxxiv, 1506: Moth Book, 358. (C.R.E.)

Celama Walker.

clethræ Dyar. *Nola.* Can. Ent., xxxi, 62.

ovilla Grote. *Nola. Ibid.,* vii, 221: Moth Book, 357.

pustulata Walker. *nigrofasciata.* Cat. Brit. Mus., xxxiii, 795: Moth Book, 357. (C.R.E.)

triquetrana Fitch. Jour. N. Y. Ent. Soc., vi, 42.

Family LITHOSIIDÆ.

Illice Walker.

subjecta Walker. *Cisthene.* Bull. Am. Mus. Nat. Hist., x, 363: Moth Book, 109.

Clemensia Packard.

albata Packard. Bull. Am. Mus. Nat. Hist., x, 361: Moth Book, 108.

Hypoprepia Hübner.

fucosa Hübner. Bull. Am. Mus. Nat. Hist., x, 362: Moth Book, 106.

miniata Kirby. Bull. Am. Mus. Nat. Hist., x, 362: Moth Book, 106.

Crambidia Packard.

pallida Packard. Proc. Phila. Ent. Soc., iii, 99.

Family SYNTOMIDÆ.

Lycomorpha Harris.

pholus Drury. Bull. Am. Mus. Nat. Hist., x, 355: Moth Book, 101.

Scepsis Walker.

fulvicollis Hübner. Bull. Am. Mus. Nat. Hist., x, 353: Moth Book, 101.

Ctenucha Kirby.

virginica Charpentier. Moth Book, 102.

Family CERATOCAMPIDÆ.

Basilona Boisduval.

imperialis Drury. *Eacles.* Imperial moth. Bull. Am. Mus. Nat. Hist., x, 442: Moth Book, 97.

Citheronia Hübner.

regalis Fabricius. Regal moth. Bull. Am. Mus. Nat. Hist., x, 441: Moth Book, 97.

Anisota Hübner.

rubicunda Fabricius. *Dryocampa.* Green-striped maple worm. Bull. Am. Mus. Nat. Hist., x, 440: Moth Book, 95.

senatoria Smith and Abbot. Orange-striped oak worm. Senator moth. Bull. Am. Mus. Nat. Hist., x, 439.

stigma Fabricius. *Ibid.*, x, 439: Moth Book, 94.

virginiensis Drury. Bull. Am. Mus. Nat. Hist., x, 440: Moth Book, 95.

Family SATURNIIDÆ.

Hemileuca Walker.

maia Drury. Bull. Am. Mus. Nat. Hist., x, 438: Moth Book, 91. (A.W.P.)

Automeris Hübner.

io Fabricius. *Hyperchiria.* Io moth. Bull. Am. Mus. Nat. Hist., x, 438: Moth Book, 89.

Telea Hübner.

polyphemus Cramer. American silk-worm moth. Bull. Am. Mus. Nat. Hist., x, 436: Moth Book, 87.

Tropæa Hübner.

luna Linnæus. *Actias.* Luna moth. Bull. Am. Mus. Nat. Hist., x, 437: Moth Book, 87.

Callosamia Packard.

angulifera Walker. Tulip tree silk moth. Bull. Am. Mus. Nat. Hist., x, 436: Moth Book, 86.

promethea Drury. Promethea moth. Bull. Am. Mus. Nat. Hist., x, 435: Moth Book, 84.

Samia Hübner.

cecropia Linnæus. *Attacus.* Cecropia moth. Bull. Am. Mus. Nat. Hist., x, 435: Moth Book, 83.

Philosamia Grote.

cynthia Drury. Cynthia moth. Bull. Am. Mus. Nat. Hist., x, 434: Moth Book, 82.

Family SPHINGIDÆ.

Cressonia Grote and Robinson.

juglandis Smith and Abbot. Bull. Am. Mus. Nat. Hist., vii, 317: Moth Book, 57.

Paonias Hübner.

astylus Drury. *Calasymbolus.* Bull. Am. Mus. Nat. Hist., vii, 316: Moth Book, 56. (C.R.E.)

excæcatus Smith and Abbot. Bull. Am. Mus. Nat. Hist., vii, 314: Moth Book, 56.

myops Smith and Abbot. Bull. Am. Mus. Nat. Hist., vii, 315: Moth Book, 56.

Smerinthus Latreille.

jamaicensis Drury. *geminatus.* Bull. Am. Mus. Nat. Hist., vii, 313: Moth Book, 55.

Marumba Moore.

modesta Harris. *Triptogon. Pachysphinx.* Bull. Am. Mus. Nat. Hist., vii, 312: Moth Book, 57. (H.H.A.), (A.B.C.), (F.W.H.)

Lapara Walker.

bombycoides Walker. *Ellema harrisii.* Bull. Am. Mus. Nat. Hist., vii, 310: Moth Book, 53. (H.H.A.)

coniferarum Smith and Abbot. Moth Book, 53.

Ceratomia Harris.

amyntor Geyer. *quadricornis.* Bull. Am. Mus. Nat. Hist., vii, 307: Moth Book, 47.

undulosa Walker. Bull. Am. Mus. Nat. Hist., vii, 308: Moth Book, 48. (A.H.Me.)

Chlænogramma Smith.

jasminearum Boisduval. Bull. Am. Mus. Nat. Hist., 306: Moth Book, 46.

Dolba Walker.

hylæus Drury. Bull. Am. Mus. Nat. Hist., vii, 309: Moth Book, 46.

Sphinx Linnæus.

chersis Hübner. *Hyloicus.* Bull. Am. Mus. Nat. Hist., vii, 303: Moth Book, 50.

convolvuli Linnæus var. **cingulata** Fabricius. *Hersc.* Bull. Am. Mus. Nat. Hist., vii, 298: Moth Book, 43. (H.H.A.)

drupiferarum Smith and Abbot. Bull. Am. Mus Nat. Hist., vii, 300: Moth Book, 52.

eremitis Hübner. Bull. Am. Mus. Nat. Hist., vii, 304: Moth Book, 49. (A.H.Me.) (G.D.)

gordius Stoll. Bull. Am. Mus. Nat. Hist., vii, 302: Moth Book, 51.

kalmiæ Smith and Abbot. Bull. Am. Mus. Nat. Hist., vii, 301: Moth Book, 51.

luscitiosa Clemens. Bull. Am. Mus. Nat. Hist., vii, 302: Moth Book, 52.

Phlegethontius Hübner.

quinquemaculatus Haworth. *Protoparce celeus* Hübner. Northern tobacco or tomato worm. Rept. Conn. Agr. Expt. Sta., 1906, 269: Moth Book, 45.

sexta Johanssen. *Protoparce carolina* Linnæus. Southern tobacco or tomato worm. Rept. Conn. Agr. Expt. Sta., 1906, 269: Moth Book, 45.

Ampelophaga Bremer and Grey.

chœrilus Cramer. *Darapsa. Pholus.* Bull. Mus. Nat. Hist., vii, 291: Moth Book, 68.

myron Cramer. Bull. Am. Mus. Nat. Hist., vii, 292: Moth Book, 68.

versicolor Harris. Bull. Am. Mus. Nat. Hist., vii, 293: Moth Book, 69.

Pholus Hübner.

achemon Drury. Bull. Am. Mus. Nat. Hist., vii, 289: Moth Book, 66. (H.M.R.)

pandorus Hübner. Bull. Am. Mus. Nat. Hist., vii, 288: Moth Book, 65. (A.H.Me.)

Thereta Hübner.

tersa Linnæus. *Chœrocampa. Xylophanes.* Bull. Am. Mus. Nat. Hist., vii, 287: Moth Book, 75. (R.H.) (H.M.R.)

Deilephila Ochsenheimer.

lineata Fabricius. *Celerio.* White-lined sphinx. Bull. Am. Mus. Nat. Hist., vii, 285: Moth Book, 76.

Deidamia Clemens.

inscriptum Harris. Bull. Am. Mus. Nat. Hist., vii, 284: Moth Book, 71.

Sphecodina Blanchard.

abbotii Swainson. *Thyreus.* Abbot sphinx. Bull. Am. Mus. Nat. Hist., vii, 283: Moth Book, 70.

Amphion Hübner.

nessus Cramer. Bull. Am. Mus. Nat. Hist, vii, 282: Moth Book, 72.

Hemaris Dalman.

diffinis Boisduval. *Hæmorrhagia.* Bull. Am. Mus. Nat. Hist., vii, 278: Moth Book, 63.

gracilis Grote and Robinson. Bull. Am. Mus. Nat. Hist., vii, 278: Moth Book, 63.

thysbe Fabricius. Bull. Am. Mus. Nat. Hist., vii, 277: Moth Book, 62.

thysbe var. **ruficaudis** Kirby. Faun. Bor. Am., iv, 303.

Suborder **RHOPALOCERA.**

Butterflies.

Family HESPERIIDÆ.

Thanaos Boisduval.

icelus Lintner. Dreamy dusky-wing. Comst. Butt., 298.

juvenalis Fabricius. Juvenal's dusky-wing. *Ibid.*, 300.

martialis Scudder. Martial's dusky-wing. *Ibid.*, 299.

persius Scudder. Persius' dusky-wing. *Ibid.*, 299.

Pholisora Scudder.

catullus Fabricius. Sooty-wing. Comst. Butt., 297.

Thorybes Scudder.

bathyllus Smith and Abbot. *Eudamus.* Southern cloudy-wing. Comst. Butt., 295.

pylades Scudder. Northern cloudy-wing. *Ibid.,* 296.

Achlarus Scudder.

lycidas Smith and Abbot. *Eudamus.* Hoary-edge. Comst. Butt., 295.

Epargyreus Hübner.

tityrus Fabricius. *Eudamus.* Silver-spotted skipper. Comst. Butt., 293.

Eudamus Swainson.

proteus Linnæus. Long-tailed skipper. Comst. Butt., 292. (S.I.S.)

Phycanassa Scudder.

vitellius Fabricius. *delaware. logan.* Vitellius skipper. Comst. Butt., 288. (C.H.Y.) (G.D.)

Limochroes Scudder.

bimacula Grote and Robinson. *Pamphila.* Ann. N. Y. Lyc. Nat. Hist., viii, 433.

manataaqua Scudder. Cross-line skipper. Comst. Butt., 286. (F.W.H.)

pontiac Edwards. Black-dash. *Ibid.,* 285.

Euphyes Scudder.

verna Edwards. *Pamphila.* Little glass-wing. Comst. Butt., 283.

vestris Boisduval var. **metacomet** Harris. *Ibid.,* 283.

Polites Scudder.

peckius Kirby. *Pamphila.* Yellow spot. Comst. Butt., 282.

Thymelicus Hübner.

cernes Boisduval and LeConte. Tawny-edged skipper. Comst. Butt., 281.

mystic Scudder. Long dash. *Ibid.,* 281.

otho Smith and Abbot. Otho skipper. *Ibid.,* 279.

Erynnis Schrank.

metea Scudder. Cobweb skipper. Comst. Butt., 277.
sassicus Harris. *Pamphila.* Indian skipper. *Ibid.*, 276.

Atrytone Scudder.

hobomok Harris. *Pamphila.* Mormon. Comst. Butt., 275.
hobomok var. **pocahontas** Scudder. *Ibid.*, 275.
zabulon Boisduval and Le Conte. Zabulon skipper. *Ibid.*, 274.

Poanes Scudder.

massasoit Scudder. *Pamphila.* Mulberry wing. Comst. Butt., 273.

Ancyloxypha Felder.

numitor Fabricius. Least skipper. Comst. Butt., 272.

Amblyscirtes Scudder.

vialis Edwards. Roadside skipper. Comst. Butt., 270. (F.W.H.)

Family LYCÆNIDÆ.

Everes Hübner.

comyntas Godart. Tailed blue. Comst. Butt., 204.

Cyaniris Dalman.

ladon Cramer. var. **lucia** Kirby. Spring azure. Comst. Butt., 249.
ladon var. **marginata** Edwards. *Ibid.*, 249.
ladon var. **neglecta** Edwards. *Ibid.*, 250.

Heodes Dalman.

hypophlæas Boisduval. *Chrysophanus.* American copper. Comst. Butt., 241.
hypophlæas var. **fasciata** Strecker.

Chrysophanus Hübner.

thoë Boisduval. Bronze copper. Comst. Butt., 239.

Feniseca Grote.

tarquinius Fabricius. Wanderer. Comst. Butt., 237.

Strymon Hübner.

titus Fabricius. *Thecla.* Coral hair-streak. Comst. Butt., 234.

Incisalia Minot.

irus Godart. Hoary elfin. Comst. Butt., 233. (J.T.K.)
niphon Hübner. Banded elfin. *Ibid.*, 234. (R.H.)

Mitoura Scudder.

damon Cramer. *smilacis.* Comst. Butt., 229.

Thecla Fabricius.

acadica Edwards. Acadian hair-streak. Comst. Butt., 224. (R.H.)
calanus Hübner. Banded hair-streak. *Ibid.*, 226.
edwardsii Saunders. Edwards' hair-streak. Butterfly Book, 243. (J.T.K.)
liparops Boisduval and Le Conte. *strigosa.* Striped hair-streak. Comst. Butt., 228. (R.H.)

Uranotes Scudder.

melinus Hübner. Gray hair-streak. Comst. Butt., 223.

Family LIBYTHEIDÆ.

Hypatus Hübner.

bachmani Kirtland. *Libythea.* Snout butterfly. Comst. Butt., 210.

Family LYMNADIDÆ.

Anosia Hübner.

plexippus Linnæus. *Danais archippus.* Monarch. Milkweed butterfly. Comst. Butt., 204.

Family AGAPETIDÆ.

Cissa Doubleday.

eurytus Fabricius. *Neonympha.* Little wood-satyr. Comst. Butt., 197.

Satyrodes Scudder.

canthus Linnæus. *Neonympha.* Eyed brown. Comst. Butt., 191.

Enodia Hübner.

portlandia Fabricius. *Debis.* Pearly eye. Comst. Butt., 189. (H.H.A.)

Cercyonis Speyer.

alope Fabricius. *satyrus*. Blue-eyed grayling. Comst. Butt., 184.

alope var. **nephele** Kirby. Dull-eyed grayling. *Ibid.*, 185.

Family NYMPHALIDÆ.

Basilarchia Scudder.

archippus Cramer. *Limenitis dissippus*. Viceroy. Comst. Butt., 170.

arthemis Drury. Banded purple. *Ibid.*, 167. (H.H.A.)

arthemis var. **proserpina** Edwards. Hybrid purple. *Ibid.*, 170. (J.T.K.)

astyanax Fabricius. *ursula*. Red-spotted purple. *Ibid.*, 166.

Junonia Hübner.

cœnia Hübner. Buckeye. Comst. Butt., 160.

Vanessa Fabricius.

atalanta Linnæus. *Pyrameis*. Red admiral. Comst. Butt., 154.

cardui Linnæus. Thistle butterfly. Cosmopolite. *Ibid.*, 158.

huntera Fabricius. Painted beauty. *Ibid.*, 156.

Aglais Dalman.

milberti Godart. *Vanessa*. American tortoise-shell. Comst. Butt., 151.

Euvanessa Scudder.

antiopa Linnæus. *Vanessa*. Mourning cloak. Comst. Butt., 148.

Eugonia Hübner.

j-album Boisduval and Le Conte. *Grapta*. Compton tortoise. Comst. Butt., 146.

Polygonia Hübner.

comma Harris. *Grapta harrisii*. Hop-merchant. Comst. Butt., 140.

faunus Edwards. *Grapta*. Green comma. *Ibid.*, 138.

interrogationis Fabricius. *Grapta*. Violet-tip. *Ibid.*, 134.

interrogationis var. **umbrosa** Lintner. *Ibid.*, 135.

progne Cramer. *Grapta*. Gray comma. *Ibid.*, 143.

Phyciodes Hübner.

tharos Drury. Pearl crescent. Comst. Butt., 129.
tharos var. **morpheus** Fabricius. *Ibid.*, 129.

Charidryas Scudder.

nycteis Doubleday and Hewitson. Silver crescent. Comst. Butt., 127. (R.H.)

Cinclidia Hübner.

harrisii Scudder. Harris' butterfly. Comst. Butt., 126. (H.H.A.)

Euphydryas Scudder.

phaeton Drury. *Melitæa.* Baltimore. Comst. Butt., 125.

Brenthis Hübner.

bellona Fabricius. *Argynnis.* Meadow fritillary. Comst. Butt., 119.
myrina Cramer. *Argynnis.* Silver-bordered fritillary. *Ibid.*, 122.

Argynnis Fabricius.

aphrodite Fabricius. Silver-spot fritillary. Comst. Butt., 117.
atlantis Edwards. Mountain silver spot. *Ibid.*, 118. (F.W.H.)
cybele Fabricius. Great spangled fritillary. *Ibid.*, 114.

Speyeria Scudder.

idalia Drury. *Argynnis.* Regal fritillary. Comst. Butt., 112.

Euptoieta Doubleday.

claudia Cramer. Variegated fritillary. Comst. Butt., 109.

Family PIERIDÆ.

Eurema Hübner.

euterpe Méné. *Terias lisa.* Little sulphur. Comst. Butt., 98.
euterpe var. **alba** Strecker. Cat. Macrolep., 85.

Eurymus Swainson.

philodice Godart. *Colias.* Clouded sulphur. Comst. Butt., 92.

Zerene Hübner.

cæsonia Stoll. Dog's head butterfly. Comst. Butt., 90.

Callidryas Boisduval and LeConte.

eubule Linnæus. *Catopsilia.* Cloudless sulphur. Comst. Butt., 88.

Synchloë Hübner.

genutia Fabricius. *Anthocaris.* Falcate orange-tip. Comst. Butt., 82.

Pontia Fabricius.

Pieris Schrank.

napi Linnæus var. **oleracea** Harris. Ins. Inj. Veg., 270.

napi var. **virginiensis** Edwards. Comst. Butt., 76. (H.L.J.)

protodice Boisduval and Le Conte. *Pieris.* Checkered white. Southern cabbage butterfly. *Ibid.,* 73.

rapæ Linnæus. Imported cabbage butterfly. *Ibid.,* 78.

rapæ var. **immaculata** Skinner and Aaron. Can. Ent. xxi, 128.

Family PAPILIONIDÆ.

Laertias Hübner.

philenor Linnæus. *Papilio.* Blue swallow-tail. Comst. Butt., 66.

Papilio Linnæus.

glaucus Linnæus var. **turnus** Linnæus. Tiger swallow-tail. Comst. Butt., 51.

polyxenes Fabricius. *asterias.* Black swallow-tail. Celery butterfly. *Ibid.,* 62.

thoas Linnæus. *cresphontes.* Giant swallow-tail. Orange dog. *Ibid.,* 56.

troilus Linnæus. Green-clouded swallow-tail. *Ibid.,* 59.

Iphidicles Hübner.

ajax Linnæus. *Papilio.* Zebra swallow-tail. Comst. Butt., 49. (F.W.H.)

Order SIPHONAPTERA.

Fleas.

Family PULICIDÆ.

Ctenocephalus Kolenati.

canis Curtis. *Pulex serraticeps.* Common cat and dog flea. Bur. Ent., Bull. 5, New ser., 150.

Order DIPTERA.

Flies, Mosquitoes, etc.

Family TIPULIDÆ.

Geranomyia Haliday.

canadensis Westwood. Mon. N. A. Dipt., iv, 80.
distincta Doane. Jour. N. Y. Ent. Soc., viii, 186.
rostrata Say. Compl. Writ., ii, 47. (C.W.J.)

Rhipidia Meigen.

domestica Osten Sacken. Mon. N. A. Dipt., iv, 84. (C.W.J.)
fidelis Osten Sacken. *Ibid.,* iv, 83.
maculata Meigen. *Ibid.,* iv, 82.

Discobola Osten Sacken.

argus Say. Compl. Writ., i, 243.

Dicranomyia Stephens.

badia Walker. Mon. N. A. Dipt., iv, 72. (Ald. Cat.)
hæretica Osten Sacken. *Ibid.,* iv, 70.
immodesta Osten Sacken. *Ibid.,* iv, 62.
liberta Osten Sacken. *Ibid.,* iv, 69.
longipennis Schummel. *Ibid.,* iv, 61.
simulans Walker. List., i, 45. (C.W.J.)

Limnobia Meigen.

immatura Osten Sacken. *Ibid.,* iv, 89. (H.L.J.)
indigena Osten Sacken. Mon. N. A. Dipt., iv, 94. (C.W.J.)
triocellata Osten Sacken. *Ibid.,* iv, 92. (C.W.J.)

Toxorhina Loew.

muliebris Osten Sacken. Mon. N. A. Dipt., iv, 115.

Rhamphidia Meigen.

flavipes Macquart. Dipt. Exot. (Suppl.), v, 17. (C.W.J.)

Elephantomyia Osten Sacken.

westwoodi Osten Sacken. Mon. N. A. Dipt., iv, 109. (C.W.J.)

Atarba Osten Sacken.

picticornis Osten Sacken. Mon. N. A. Dipt., iv, 128.

Teucholabis Osten Sacken.

complexa Osten Sacken. Mon. N. A. Dipt., iv, 132.

Antocha Osten Sacken.

saxicola Osten Sacken. *opalizans.* Mon. N. A. Dipt., iv, 126. (C.W.J.)

Ormosia Rondani.

luteola Dietz. *Rhypholophus.* Trans. Am. Ent. Soc., xlii, 138. (C.R.E.)

monticola Osten Sacken. *Rhypholophus.* Mon. N. A. Dipt., iv, 145.

pygmæa Alexander. *pilosa* Dietz. *Rhypholophus.* Trans. Am. Ent. Soc., xlii, 138. (C.R.E.)

Erioptera Meigen.

armata Osten Sacken. Mon. N. A. Dipt., iv, 160. (C.W.J.)

armillaris Osten Sacken. *Ibid.,* iv, 158.

caloptera Say. Compl. Writ., ii, 44.

chlorophylla Osten Sacken. Mon. N. A. Dipt., iv, 157. (C.W.J.)

dulcis Osten Sacken. West. Dipt. 198. (C.W.J.)

needhami Alexander. Can. Ent., l, 383.

parva Osten Sacken. Mon. N. A. Dipt., iv, 162.

septemtrionalis Osten Sacken. *Ibid.,* iv, 162.

straminea Osten Sacken. *Ibid.,* iv, 157.

venusta Osten Sacken. *Ibid.,* iv, 158. (C.W.J.)

vespertina Osten Sacken. *Ibid.,* iv, 157.

Molophilus Curtis.

hirtipennis Osten Sacken. Mon. N. A. Dipt., iv, 163.

Gonomyia Osten Sacken.

blanda Osten Sacken. Mon. N. A. Dipt., iv, 182.
cognotella Osten Sacken. *Ibid.*, iv, 181.
subcinerea Osten Sacken. *Ibid.*, iv, 181. (C.W.J.)
sulphurella Osten Sacken. *Ibid.*, iv, 180. (C.W.J.)

Symplecta Meigen.

Helobia St. Fargeau.

hybrida Meigen. Syst. Beschr., vi, 282. (H.L.J.)

Trichocera Meigen.

bimacula Walker. Mon. N. A. Dipt., iv, 236.
brumalis Fitch. Rept. N. Y. State Ent., ii, 243.

Epiphragma Osten Sacken.

fascipennis Say. *Limnobia.* Compl. Writ., ii, 45. (H.L.J.)

Limnophila Macquart.

adusta Osten Sacken. Mon. N. A. Dipt., iv, 215. (C.W.J.)
contempta Osten Sacken. *Ibid.*, iv, 218.
fuscovaria Osten Sacken. *Ibid.*, iv, 225. (C.W.J.)
lenta Osten Sacken. *Ibid.*, iv, 231.
macrocera Say. *Limnobia.* Compl. Writ., ii, 46.
marchandi Alexander. Jour. N. Y. Ent. Soc., xxiv, 118.
montana Osten Sacken. Mon. N. A. Dipt., iv, 227. (H.L.J.)
recondita Osten Sacken. Mon. N. A. Dipt., iv, 212.
rufibasis Osten Sacken. *Ibid.*, iv, 225. (C.W.J.)
ultima Osten Sacken. *Ibid.*, iv, 222. (H.L.J.)

Pseudolimnophila Alexander.

luteipennis Osten Sacken. *Limnophila.* Mon. N. A. Dipt., iv, 217.
noveboracensis Alexander. *Limnophila.* Psyche, xviii, 196.

Eulimnophila Alexander.

tenuipes Say. Compl. Writ., ii, 46.

Hexatoma Latreille.

Anisomera Meigen.

megacera Osten Sacken. *Anisomera.* Mon. N. A. Dipt., iv, 243.

Eriocera Macquart.

longicornis Walker. Mon. N. A. Dipt., iv, 253. (C.W.J.)

Penthoptera Schiner.

albitarsis Osten Sacken. Mon. N. A. Dipt., iv, 257. (Ald. Cat.)

Tricyphona Zetterstedt.

inconstans Osten Sacken. *Amalopis*. Mon. N. A. Dipt., iv, 266. (C.W.J.)

Pedicia Latreille.

albivitta Walker. Insect Book, pl. xvi, 12.

Liogma Osten Sacken.

nodicornis Osten Sacken. Mon. N. A. Dipt., iv, 301. (C.W.J.)

Bittacomorpha Westwood.

clavipes Fabricius. Insect Book, pl. xv, 8.

Ptychoptera Meigen.

rufocincta Osten Sacken. Mon. N. A. Dipt., iv, 313.

Oropeza Needham.

dorsalis Johnson. Proc. Bost. Soc. Nat. Hist., xxxiv, 119.
sayi Johnson. *annulata*. *Ibid.*, xxxiv, 118. (C.W.J.)
subalbipes Johnson. *Ibid.*, xxxiv, 121.

Tanyptera Latreille.

Xiphura Brullé

frontalis Osten Sacken. Proc. Phila. Ent. Soc., iii, 48.
fumipennis Osten Sacken. *Ibid.*, iii, 47.
topazina Osten Sacken. *Ibid.*, iii, 47.

Ctenophora Meigen.

apicata Osten Sacken. Proc. Phila. Ent. Soc., iii, 46.
nubecula Osten Sacken. *Ibid.*, iii, 45. (C.W.J.)

Nephrotoma Meigen.

Pachyrhina Macquart.

eucera Loew. Cent., iv, 39.
ferruginea Fabricius. Insect Book, pl. xv, 17.
incurva Loew. Cent., iv. 32.
lugens Loew. *Ibid.*, v. 26.
macrocera Say. Compl. Writ., ii, 350.
sodalis Loew. Cent., v, 29.
tenuis Loew. *Ibid.*, iv, 41.
virescens Loew. *Ibid.*, v, 25.
xanthostigma Loew. *Ibid.*, v, 31.

Tipula Linnæus.

abdominalis Say. Insect Book, pl. xvi, 4.
angustipennis Loew. Cent iv, 19. (H.L.J.)
annulicornis Say. Compl. Writ., ii, 350.
bella Loew. *Ibid.*, iv, 29.
caloptera Loew. *Ibid.*, iv, 30. (C.W.J.)
cunctans Say. *Ibid.*, ii, 48.
dejecta Walker. Dipt. Saund., 442. (C.W.J.)
eluta Loew. Cent., iv, 27.
fuliginosa Say. *speciosa* Loew. Compl. Writ., ii, 44.
hebes Loew. Cent., iv, 18. (Ald. Cat.)
hermannia Alexander. *fasciata* Loew. Cent., iv, 6; N. Y. (Cornell) Agr. Expt. Sta., Memoir 25, 946. (C.W.J.)
latipennis Loew. Cent., v, 20. (C.W.J.)
longiventris Loew. *Ibid.*, iv, 5. (C.W.J.)
oropezoides Johnson. Proc. Bost. Soc. Nat. Hist., xxxiv, 131.
pallida Loew. *Ibid.*, iv, 16. (C.W.J.)
sayi Alexander. *costalis* Say. Jour. Acad. Nat. Sci., iii, 23.
serta Loew. Cent., iv, 14.
strepens Loew. *Ibid.*, iv, 28. (C.W.J.)
submaculata Loew. *Ibid.*, iv, 23.
tephrocephala Loew. *Ibid.*, v, 23. (C.W.J.)
tricolor Fabricius. Dipt. Exot., i, 22.
trivittata Say. Compl. Writ., ii, 50.
ultima Alexander. *flavicans* Fabricius. Dipt. Exot. (Suppl.), i, 25; N. Y. (Cornell) Agr. Expt. Sta., Memoir 25, 944.
umbrosa Loew. *inermis*. Cent., iv, 31.
valida Loew. Cent., iv, 21. (C.W.J)

Family DIXIDÆ

Dixa Meigen.

clavulus Williston. *modesta*. N. Y. State Mus. Bull., 68, 429. (C.W.J.)
fusca Loew. *Ibid.*, 68, 432. (C.W.J.)
notata Loew. *Ibid.*, 68, 432.

Family PSYCHODIDÆ.

Psychoda Latreille.

alternata Say. Can. Ent., xxvi, 330.
cinerea Banks. *Ibid.*, xxvi, 331.
marginalis Banks. *Ibid.*, xxvi, 333.
minuta Banks. *Ibid.*, xxvi, 331.

Family CHIRONOMIDÆ.

Ceratopogon Meigen.

fusculus Coquillett. Proc. U. S. Nat. Mus., xxiii, 605.
piceus Winnertz. Linn. Ent., vi, 21.

Palpomyia Meigen.

rufus Loew. Cent., i, 12. (C.W.J.)
tibialis Meigen. Fauna Aust., ii, 586.
trivialis Loew. Cent., i, 4. (C.W.J.)

Chironomus Meigen.

cristatus Fabricius. N. Y. State Mus. Bull., 86, 242.
dispar Meigen. *Ibid.*, 86, 213. (C.W.J.)
dorsalis Meigen. Syst. Beschr., i, 25.
dux Johanssen. N. Y. State Mus. Bull. 86, 231. (C.W.J.)
festivus Say. Compl. Writ., ii, 41. (C.W.J.)
modestus Say. *Ibid.*, ii, 41: N. Y. State Mus. Bull., 86, 227.
nigricans Johanssen. N. Y. State Mus. Bull., 86, 219.
pulchripennis Coquillett. *Ibid.*, 86, 204. (C.W.J.)
tæniapennis Coquillett. *Ibid.*, 86, 203.

Orthocladius Van der Wulp.

sp.

Camptocladius Van der Wulp.

byssinus Schrank. Fauna Aust., ii, 612.

Cricotopus Van der Wulp.

sylvestris Fabricius. Fauna Aust., ii, 611.

Eurycnemus Van der Wulp.

scitulus Coquillett. Proc. U. S. Nat. Mus., xxiii, 608. (C.W.J.)

Tanypus Meigen.

carnea Fabricius. Syst. Antl., 41, 1805. (H.L.J.)
dyari Coquillett. Ent. News, xiii, 85.
johnsoni Coquillett. Proc. U. S. Nat. Mus., xxiii, 609.
monilis Linnæus. *annulatus*. Compl. Writ., ii, 43.

Psilotanypus Kieffer.

thoracicus Loew. *Tanypus*. Cent., vii, 3.

Chasmatonotus Loew.

bimaculatus Osten Sacken. West. Dipt., 191.

Family CULICIDÆ.

Wyeomyia Theobald.

smithii Coquillett. *Aëdes smithii*. Mosq. N. A., iii, 94.

Culex Linnæus.

dyari Coquillett. *brittoni*. Mosq. N. A., iii, 457.
pipiens Linnæus. House or rain barrel mosquito. Rept. Conn. Agr. Sta., 1904, 266: Mosq. N. A., iii, 360.
salinarius Coquillett. Mosq. N. A., iii, 373.
territans Walker. *Ibid.*, iii, 293.

Mansonia Blanchard.

perturbans Walker. *Culex. Tæniorhynchus*. Mosq. N. A., iii, 505.

Aëdes Meigen.

atropalpus Coquillett. Mosq. N. A., iv, 638.
aurifer Coquillett. *Ibid.*, iv, 766.
canadensis Theobold. *Ibid.*, iv, 647.
cantator Coquillett. Brown salt marsh mosquito. *Ibid.*, iv, 700.
fitchii Felt and Young, or abfitchii Felt., *Ibid.*, iv, 682, 688.*
fuscus Osten Sacken. *Ibid.*, iv, 729.
hirsuteron Theobald. *pretans*. *Ibid.*, iv, 743.
onondagensis Felt. *currei*. *Ibid.*, iv, 629.

* Several females formerly identified as *Culex cantans* have been taken in Connecticut. As it is said to be impossible to separate *fitchii* and *abfitchii* from captured females, the species cannot be definitely placed here

sollicitans Walker. Banded salt marsh mosquito. *Ibid.*, 658. Rept. Conn. Agr. Expt. Sta., 1904, 268.
sylvestris Theobald. Mosq. N. A., iv, 694.
tæniorhynchus Wiedeman. *Ibid.*, iv, 667.
triseriatus Say. *Ibid.*, iv, 762.
trivittatus Coquillett. *Ibid.*, iv, 773.

Psorophora Robineau-Desvoidy.

ciliata Fabricius. Gallinipper. Rept. Conn. Agr. Expt. Sta., 1904, 271: Mosq. N. A., iv, 530.

Anopheles Meigen.

punctipennis Say. Rept. Conn. Agr. Expt. Sta., 1904, 271: Mosq. N. A., iv, 1009.
quadrimaculatus Say. *maculipennis.* Malarial mosquito. Rept. Conn. Agr. Expt. Sta., 1904, 271: Mosq. N. A., 1028.

Corethra Meigen.

cinctipes Coquillett. Can. Ent., xxxv, 190.

Sayomyia Coquillett.

americana Johanssen. *Corethra plumicornis* var. *americana.* N. Y. State Mus. Bull., 68, 395.

Family MYCETOPHILIDÆ.

Mycomya Rondani.

Sciophila Meigen.

littoralis Say. Compl. Writ., i, 245.

Neoempheria Osten Sacken.

balioptera Leow. Cent., ix, 13.

Leia Meigen.

bivittata Say. *Neoglaphyroptera.* Compl. Writ., ii, 351.
opima Loew. Cent., ix, 29.

Rhymosia Winnertz.

filipes Loew. Cent., ix, 36.

Exechia Winnertz.

absoluta Johanssen. Me. Agr. Expt. Sta. Bull., 200, 72.

Mycetophila Meigen.

contigua Walker. List., i, 46.
discoidea Say. Compl. Writ., ii, 351.
obscura Walker. List, i, 101.
scalaris Loew. *Dynatosoma.* Cent., ix, 48.

Mycetobia Meigen.

divergens Walker. Dipt. Saund., 418.

Macrocera Meigen.

clara Loew. Cent., ix, 6. (C.W.J.)
formosa Loew. *Ibid.,* ix, 8. (C.W.J.)
hirsuta Loew. *Ibid.,* ix, 5. (C.W.J.)
inconcinna Loew. *Ibid.,* ix, 7. (C.W.J.)

Family SCIARIDÆ.

Sciara Meigen.

actuosa Johannsen. Me. Agr. Expt. Sta., Bull. 200, 134.
inconstans Fitch. *Ibid.,* Bull. 200, 139.
jucunda Johannsen. *Ibid.,* Bull. 200, 131.
mellea Johannsen. *Ibid.,* Bull. 200, 129.
ochrolabis Loew. *Ibid.,* Bull. 200, 125.
pauciseta Felt. *Ibid.,* Bull. 200, 130.
prolifica Felt. *Ibid.,* Bull. 200, 128.
sciophila Loew. *Ibid.,* Bull. 200, 126.

Family CECIDOMYIDÆ (ITONIDIDÆ).*

Monardia Kieffer.

modesta Felt. Psyche, xx, 142.

Miastor Meinert.

americanus Felt. Rept. N. Y. State Ent., No. 26, 82.

Rhabdophaga Westwood.

salicifoliæ Felt. Rept. N. Y. State Ent., No. 29, 106.
strobiloides Walsh. *Cecidomyia.* Pine cone willow gall. Proc. Phila. Ent. Soc., iii, 580; Rept. N. Y. State Ent., No. 29, 112.

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*For additional species in this family see appendix.

Dasyneura Rondani.

communis Felt. Jour. Econ. Ent., iv, 478; Rept. N. Y. State Ent., No. 29, 181.

gleditschiæ Osten Sacken. Rept. Conn. Agr. Expt. Sta., 1904, 212; Rept. N. Y. State Ent., No. 29, 163.

serrulatæ Osten Sacken. Rept. N. Y. State Ent., No. 29, 186.

Cystiphora Kieffer.

viburnifolia Felt. Jour. Econ. Ent., iv, 480; Rept. N. Y. State Ent. No. 29, 201.

Phytophaga Rondani.

destructor Say. *Cecidomyia. Mayetiola.* Hessian fly. Bur. Ent., Circ. 70.

rigidæ Osten Sacken. *Cecidomyia.* Willow club gall. Rept. N. Y. State Ent., No. 23, 371.

Rhopalomyia Rubsaamen.

anthophili Osten Sacken. Ins. Galls Springfld., 50; Rept. N. Y. State Ent., No. 25, 364, 365. (G. D.)

asterifloræ Felt. Rept. N. Y. State Ent., No. 23, 366.

capitata Felt. *Ibid.,* No. 23, 364.

hirtipes Osten Sacken. Ins. Galls. Springfld., 52. (G.D.)

lateriflori Felt. Rept. N. Y. State Ent. No. 23, 364, 365.

pedicellata Felt. *Ibid.,* 30, 262.

Sackenomyia Felt.

viburnifolia Felt. Rept. N. Y. State Ent., No. 30, 280.

Cincticornia Felt.

connecta Felt. Rept. N. Y. State Ent., No. 23, 381.

globosa Felt. Jour. Econ. Ent., ii, 291.

majalis Osten Sacken. Ins. Galls. Springfld., 17. (G.D.)

pustulata Felt. Jour. Econ. Ent., ii, 291.

Asphondylia Loew.

conspicua Osten Sacken. Ins. Galls Springfld., 54.

monacha Osten Sacken. Rept. N. Y. State Ent., No. 23, 376.

Neolasioptera Felt.

perfoliata Felt. Ins. Galls, Springfld., 49. (G.D.)

ramuscula Beutenmüller. Rept. N. Y. State Ent., No. 23, 333.

sambuci Felt. Ins. Galls, Springfld., 48. (G.D.)

Lasioptera Meigen.

corni Felt. Rept. N. Y. State Ent., No. 23, 324.
impatientifolia Felt. Ins. Galls Springfld., 43; Rept. N. Y. State Ent., No. 23, 324. (G.D.)
querciperda Felt. Rept. N. Y. State Ent., No. 23, 324.
vitis Osten Sacken. *Ibid.*, No. 4, 183; No. 23, 324.

Asteromyia Felt.

carbonifera Felt. *Baldratia.* Rept. N. Y. State Ent., No. 23, 328.
divaricata Felt. *Baldratia. Ibid.*, No. 23, 330.
læviana Felt. *Baldratia. Ibid.*, No. 23, 330.
nigrina Felt. Jour. Econ. Ent., iv, 481.
reducta Felt. *Ibid.*, iv, 481.
rosea Felt. *Baldratia.* Rept. N. Y. State Ent., No. 23, 328.
rubra Felt. *Baldratia. Ibid.*, No. 23, 329.
sylvestris Felt. Can. Ent., xlvii, 228.
vesiculosa Felt. Jour. Econ. Ent., ii, 286.

Camptoneuromyia Felt.

rubifolia Felt. Rept. N. Y. State Ent., No. 23, 334.

Contarinia Rondani.

canadensis Felt. State Mus. Bull., 200, 178.
pyrivora Riley. Pear midge. Rept. Conn. Agr. Expt. Sta., 1913, 239.
tritici Kirby. Wheat midge. Jour. Econ. Ent., 5, 289.
violicola Coquillett. Violet Midge. Bur. Ent., N. S., Bull. 27, 47.
virginiana Felt. Ins. Galls Springfld., 40. (G.D.)

Thecodiplosis Kieffer.

liriodendri Osten Sacken. *Cecidomyia.* Mon. N. A. Dipt., i, 202.

Youngomyia Felt.

umbellicola Osten Sacken. Trans. Am. Ent. Soc., iii, 52.

Clinodiplosis Kieffer.

florida Felt. Rept. N. Y. State Ent., No. 23, 411.

Caryomyia Felt.

caryæ Osten Sacken. *Hormomyia.* Rept. N. Y. State Ent., No. 23, 388.
consobrina Felt. *Hormomyia. Ibid.*, No. 23, 387.
persicoides Beutenmüller. *Cecidomyia.* Mon. N. A. Dipt., i, 193.

sanguinolenta Osten Sacken. *Cecidomyia. Ibid.*, i, 192.
thompsoni Felt. *Hormomyia.* Rept. N. Y. State Ent., No. 23, 388.

Hormomyia Loew.

modesta Felt. Psyche, xx, 145.

Itonida Meigen.

foliora Russell and Hooker. *Cecidomyia erubescens.* Ent. News, xix, 349.

Retinodiplosis Kieffer.

resinicola Osten Sacken. Trans. Am. Ent. Soc., iii, 345.

Cecidomyia Meigen.

deserta Patton. Can. Ent., xxix, 247. (Ald. Cat.)
eupatorifloræ Beutenmüller. Ins. Galls Springfld., 49 (G.D.)
impatientis Osten Sacken. *Ibid.*, 43. (G.D.)
ocellaris Osten Sacken. *Sciara.* Ocellate leaf gall. Rept. U. S. Dept. Agr., 1881-2, 202.
pudibunda Osten Sacken. Ins. Galls Springfld., 15. (G.D.)
squamulicola Stebbins. *Ibid.*, 16.
verrucicola Osten Sacken. Can. Ent., vii, 201.

Family BIBIONIDÆ.

Bibio Geoffroy.

albipennis Say. Insect Book, pl. xv, 18.
femoratus Weidemann. Dipt. Exot. (Suppl.), i, 87.
longipes Loew. Cent., v, 12.
pallipes Say. Compl. Writ., ii, 68.
xanthopus Wiedemann. Dipt. Exot. (Suppl.), i, 88.

Dilophus Meigen.

dimidiatus Loew. Cent., viii, 3. (C.W.J.)

Family SCATOPSIDÆ.*

Rhegmoclema Enderlein.

atrata Say. *Scatopse.* Wash. Agr. Expt. Sta., Bull. 130, 12.

Reichertella Enderlein.

femoralis Macquart. *Scatopse pulicaria* Loew. Wash. Agr. Expt. Sta., Bull. 130, 9.

* See also appendix.

Family SIMULIIDÆ.

Simulium Latreille.

bracteatum Coquillett. Bur. Ent. Bull., 10, New ser., 69.
pecuarum Riley. *invenustum*. Bur. Ent., Bull. 10, New ser., 68.

Family RYPHIDÆ.

Ryphus Latreille.

alternatus Say. Compl. Writ., ii, 51.
fenestralis Scopoli. Fauna Aust., ii, 495.
punctatus Fabricius. *marginatus*. Compl. Writ., ii, 50.

Family STRATIOMYIDÆ.

Allognosta Osten Sacken.

fuscitarsis Say. *Beris*. Compl. Writ., ii, 52.
obscuriventris Loew. Cent., iv, 45.

Ptecticus Loew.

sackenii Williston. Can. Ent., xvii, 124. (C.W.J.)
trivittatus Say. *Sargus*. Compl. Writ., ii, 355.

Macrosargus Bigot.

Sargus Fabricius.

cuprarius Linnæus. Fauna Aust., i, 21; Psyche, xxii, 29.
decorus Say. Insect Book, pl. xvi, 11.
elegans Loew. Cent., vii, 10.
viridis Say. Compl. Writ., ii, 77.

Stratiomyia Geoffroy.

badius Walker. Trans. Am. Ent. Soc., xxii, 243. (A.B.C.)
discalis Loew. *Ibid.*, xxii, 240.
meigenii Wiedemann. *Ibid.*, xxii, 238.
normula Loew. *Ibid.*, xii, 255. (Ald. Cat.)
quaternaria Loew. *Ibid.*, xxii, 241. (Ald. Cat.)

Odontomyia Meigen.

cincta Olivier. Trans. Am. Ent. Soc., xxii, 253.
flavicornis Olivier. *Ibid.*, xxii, 269.
hydroleonoides Johnson. *Ibid.*, xxii, 261. (C.W.J.)
interrupta Olivier. *Ibid.*, xxii, 265.

microstoma Loew. *Ibid.*, xxii, 264.
pubescens Day. *Ibid.*, xxii, 264.
virgo Wiedemann. *Ibid.*, xxii, 262.

Euparyphus Gerstaecker.

bellus Loew. Cent., vii, 18. (C.W.J.)

Nemotelus Geoffroy.

carbonarius Loew. Psyche, x, 177.
unicolor Loew. *Ibid.*, x, 176. (C.W.J.)

Oxycera Meigen.

maculata Olivier. Encycl. Meth., viii, 600. (C.W.J.)

Family TABANIDÆ.

Pangonia Latreille.

rasa Loew. Tab. Ohio, 45.

Chrysops Meigen.

callidus Osten Sacken. Tab. Ohio, 35.
carbonarius Walker. Ohio Nat., v, 219.
celer Osten Sacken. Tab. Ohio, 36.
cuclux Whitney. Can. Ent., xi, 35.
cursim Whitney. *Ibid.*, xi, 36.
delicatulus Osten Sacken. Prodrome, i, 380.
dimmocki Hine. Ohio Nat., vi, 393.
fallax Osten Sacken. Tab. Ohio, 36.
flavidus Wiedemann. *Ibid.*, 37.
frigidus Osten Sacken. Prodrome, i, 384.
hilaris Osten Sacken. Insect Book, pl. xvi, 17.
indus Osten Sacken. Tab. Ohio, 33, 34.
lugens Wiedemann var. **morosus** Osten Sacken. Prodrome, i, 377. (J.S.H.)
mœchus Osten Sacken. Tab. Ohio, 39.
montanus Osten Sacken. *Ibid.*, 40.
niger Macquart. Insect Book, pl. xv, 36.
obsoletus Wiedemann. Tab. Ohio, 42.
plangens Wiedemann. *fuliginosus*. Dipt. Exot. Suppl., i, 19.
pudicus Osten Sacken. Prodrome, i, 381.
sackeni Hine. Tab. Ohio, 42.
univittatus Macquart. *Ibid.*, 44.
vittatus Wiedemann. Insect Book, pl. xv, 37.

Tabanus Linnæus.

abdominalis Fabricius. Prodrome, ii, 434.
acteon Osten Sacken. *Ibid.*, ii, 443. (Ald. Cat.)
astutus Osten Sacken. *Ibid.*, ii, 471. (Ald. Cat.)
atratus Fabricius. Black horse fly. Insect Book, pl. xv, 42.
bicolor Wiedemann. *Ibid.*, pl. xvi, 13.
cinctus Fabricius. Prodrome, ii 464.
coffeatus Macquart. *Ibid.*, ii, 441. (A.B.C.)
costalis Wiedemann. Insect Book, pl. xv, 38.
epistates Osten Sacken. Tab. Ohio, 50. (A.B.C.)
giganteus DeGeer. Prodrome, ii, 464. (C.W.J.)
hinei Johnson. Psyche, xl, 15.
lasiophthalmus Macquart. Insect Book, pl. xv, 41.
lineola Fabricius. *Ibid.*, pl. xv, 35.
longus Osten Sacken. Tab. Ohio, 52.
microcephalus Osten Sacken. Prodrome, ii, 470.
nigrescens Beauvois. *Ibid.*, ii, 453.
nigrovittatus Macquart. *Ibid.*, ii, 449.
nivosus Osten Sacken. Tab. Ohio, 52.
ohioensis Hine. *Ibid.*, 53.
orion Osten Sacken. Prodrome, ii, 442.
pumilis Macquart. Tab. Ohio, 53. (A.B.C.)
recedens Walker. *catenatus*. Prodrome, ii, 433.
sparus Whitney. Can. Ent., xi, 38. (Ald. Cat.)
stygius Say. Tab. Ohio, 54. (Ald. Cat.)
superjumentarius Whitney. Can. Ent., xi, 37.
trimaculatus Beauvois. Tab. Ohio, 55. (A.B.C.)
trispilus Wiedemann. Insect Book, pl. xvi, 5.
vivax Osten Sacken. Tab. Ohio, 56.

Merycomyia Hine.

whitneyi Johnson. *geminata* Hine. Psyche, xi, 15; Ohio Nat., xii, 515.

Family LEPTIDÆ.

Cœnomyia Latreille.

ferruginea Scopoli. *cinereibarbis* Bigot. Can. Ent., xvii, 122.

Xylophagus Meigen.

lugens Loew. Cent., iii, 8.
persequus Walker. Dipt. Saund., i. (A.B.C.)

Solva Walker.

Xylomyia Rondani.

pallipes Loew. Cent. iii, 122. (W.E.B.)

Dialysis Walker.

elongata Say. Compl. Writ., ii, 58. (C.W.J.)

Rhagio Fabricius.

Leptis Fabricius.

mystacea Macquart. Insect Book, pl. xvi, 15.
punctipennis Say. Compl. Writ., ii, 55.
scapularis Loew. Cent., i, 22. (S.W.W.)
vertebrata Say. Compl. Writ., i, 27.

Chrysophila Macquart.

basilaris Say. Trans. Am. Ent. Soc., v, 285.
fasciata Say. Compl. Writ., i, 28.
ornata Say. Insect Book, pl. xv, 2.
propinqua Walker. List, i, 215.
proxima Walker. *Ibid.*, i, 214.
quadrata Say. *Leptis.* Compl. Writ., ii, 55. (W.E.B.)
thoracica Fabricius. Insect Book, pl. xvi, 18.

Atherix Meigen.

variegata Walker. List, i, 218. (H.L.J.)

Symphoromyia Frauenfield.

hirta Johnson. Ent. News, viii, 120.

Glutops Burgess.

singularis Burgess. Proc. Bost. Soc. Nat. Hist., 1878, 320. (H.L.J.)

Family CYRTIDÆ.

Oncodes Latreille.

costatus Loew. Cent., ix, 67. (C.W.J.)
pallidipennis Loew. *Ibid.*, vi, 32.

Acrocera Meigen.

nigrina. Westwood. Trans. Ent. Soc., Lond., v, 98. (C.W.J.)

Family BOMBYLIIDÆ.

Spogostylum Macquart.

anale Say. Compl. Writ., ii, 60.
œdipus Fabricius. *Anthrax irrorata. Ibid.*, ii, 61. (S.W.W.)
simson Fabricius. Insect Book, pl. xvii, 11.

Exoprosopa Macquart.

fasciata Macquart. Insect Book, pl. xviii, 18.
fascipennis Say. *Ibid.*, pl. xvii, 5.

Villa Lioy.

Anthrax Scopoli.

alternata Say. Trans. Am. Ent. Soc., xiv, 166.
fulvohirta Wiedemann. *Ibid.*, xiv, 174.
lateralis Say. *Ibid.*, xiv, 166; xix, 169.
lepidota Osten Sacken. Trans. Am. Ent. Soc., xix, 176. (C.W.J.)
morio Linnæus. Trans. Am. Ent. Soc., xxi, 98. (C.W.J.)
sinuosa Wiedemann. Insect Book, pl. xvii, 7.
webberi Johnson. Psyche, xxvi, 11.

Bombylius Linnæus.

fraudulentus Johnson. Psyche, xiv, 99.
fulvibasis Macquart. *atriceps* Loew. Cent. iv, 49.
major Linnæus. Insect Book, pl. xvii, 6.
pulchellus Loew. Cent., iv, 47. (S.W.W.)
pygmæus Fabricius. Insect Book, pl. xviii, 19.
varius Fabricius. *Ibid.*, pl. xviii, 22. (A.B.C.)

Sparnopolius Loew.

fulvus Wiedemann. Insect Book, pl. xviii, 26.

Systropus Wiedemann.

macer Loew. Cent., iv, 56.

Geron Meigen.

senilis Fabricius. Cent., ix, 1908.

Family THEREVIDÆ.

Tabuda Walker.

fulvipes Walker. Proc. Phila. Ent. Soc., i, 217.

Psilocephala Zetterstedt.

aldrichi Coquillet. Can. Ent., xxv, 227.
hæmorrhoidalis Macquart. Insect Book, pl. xviii, 27.
melanoprocta Loew. Cent., viii, 15. (H.L.J.)
pictipennis Wiedemann. Dipt. Exot. Suppl., 113. (H.L.J.)

Thereva Latreille.

albiceps Loew. Cent., ix, 69. (C.W.J.)
candidata Loew. Can. Ent., xxv, 197.
frontalis Say. Compl. Writ., i, 252. (C.W.J.)

Family SCENOPINIDÆ.

Scenopinus Latreille.

fenestralis Linnæus. *pallipes.* Compl. Writ., ii, 86. (C.W.J.)
glabrifrons Meigen. Fauna Aust., i, 160.

Family MYDAIDÆ.

Mydas Fabricius.

clavatus Drury. *filatus.* Dipt. Exot. Suppl., 116.

Family ASILIDÆ.

Leptogaster Meigen.

badius Loew. Trans. Am. Ent. Soc., xxxv, 160.
flavillaceus Loew. Cent., ii, 12.
flavipes Loew. Trans. Am. Ent. Soc., xxxv, 163.
loewi Banks. Psyche, xxi, 133. (C.W.J.)
testacea Loew. Cent., ii, 10. (C.W.J.)

Ceraturgus Wiedemann.

cruciatus Say. Insect Book, pl. xvi, 29.

Dioctria Meigen.

albius Walker. Insect Book, pl. xvii, 12.
baumhaueri Meigen. Syst. Beschr, ii, 245.
brevis Banks. Psyche, xxiv, 117.

Cyrtopogon Loew.

falto Walker. *chrysopogon* Loew. Insect Book, pl. xix, 28.
marginalis Loew. Trans. Am. Ent. Soc., xxxv, 267.

Lasiopogon Loew.

Daulopogon Loew.

opaculus Loew. Trans. Am. Ent. Soc., xxxv, 299. (C.W.J.)
terricola Johnson. Ent. News, xi, 326.
tetragrammus Loew. Trans. Am. Ent. Soc., xxxv, 301. (C.W.J.)

Holcocephala Jænnicke.

abdominalis Say. Trans. Am. Ent. Soc., xxxv, 309.

Holopogon Loew.

guttula Wiedemann. Trans. Am. Ent. Soc., xxxv, 313.

Stichopogon Loew.

trifasciatus Say. Trans. Am. Ent. Soc., xxxv, 335.

Deromyia Philippi.

discolor Loew. Trans. Am. Ent. Soc., xxxv, 358.
umbrina Loew. *Ibid.*, xxxv, 367.
winthemi Wiedemann. *Ibid.*, xxxv, 371.

Taracticus Loew.

octopunctatus Say. Trans. Am. Ent. Soc., xxxv, 373.

Atomosia Macquart.

puella Wiedemann. Psyche, x, 114.

Lampria Macquart.

bicolor Wiedemann. Insect Book, pl. xvi, 27.

Dasyllis Loew.

champlainii Walton. Ent. News, xxi, 243. (A.B.C.)
flavicollis Say. *Laphria.* Compl. Writ., i, 255.
grossa Fabricius. *Laphria tergissa. Ibid.*, ii, 67.
posticata Say. *Laphria.* Compl. Writ., i, 255.
thoracica Fabricius. Insect Book, pl. xviii, 11.

Laphria Meigen.

canis Williston. Trans. Am. Ent. Soc., xi, 31: Insect Book, pl. xvii, 10.
gilva Linnæus. *bilineata.* Trans. Am. Ent. Soc., xi, 30. (D.J.C.)

Ommatius Wiedemann.

marginellus Fabricius. *tibialis.* Insect Book, pl. xvi, 25.

Proctacanthus Macquart.

brevipennis Wiedemann. Trans. Am. Ent. Soc., xii, 73.
philadelphicus Macquart. Insect Book, pl. xvii, 24.

Erax Scopoli.

æstuans Linnæus. *bastardii* Macquart. Insect Book, pl. xvii, 14.
albibarbis Macquart. *cinerascens. furax.* Trans. Am. Ent. Soc., xii, 67.
rufibarbis Macquart. Dipt. Exot. Suppl., 1, 2, 116; Psyche, xvi, 33. (C.W.J.)

Promachus Loew.

bastardii Macquart. Trans. Am. Ent. Soc., xii, 63.
fitchii Osten Sacken. *Ibid.,* xiii, 61. (H.L.J.)

Asilus Linnæus.

auricomus Hine. Ann. Ent. Soc. Am., ii, 148.
erythocnemius Hine. *Ibid.,* ii, 163. (J.S.H.)
flavofemorata Hine. *flavipes. Ibid.,* ii, 153.
notatus Wiedemann. *Ibid.,* ii, 157.
novæ-scotiæ Macquart. *Ibid.,* ii, 157.
orphne Walker. *distinctus. Ibid.,* ii, 154.
paropus Walker. *Ibid.,* ii, 161. (J.S.H.)
sadyates Walker. *Ibid.,* ii, 156.
sericeus Say. Insect Book, pl. xvii, 20.
snowii Hine. *annulatus.* Ann. Ent. Soc. Am., ii, 160.

Family DOLICHOPODIDÆ.

Psilopus Meigen.

caudatus Wiedemann. *caudatulus.* Mon. N. A. Dipt., ii, 271.
filipes Loew. *Ibid.,* ii, 286. (S.W.W.)
pallens Wiedemann. *Ibid.,* ii, 275. (C.W.J.)
patibulatus Say. Compl. Writ., ii, 76.
scaber Loew. Mon. N. A. Dipt., ii, 250. (C.W.J.)
scobinator Loew. *Ibid.,* ii, 268. (C.W.J.)
sipho Say. Compl. Writ., ii, 75.
tener Loew. Cent., ii, 71.
unifasciatum Say. Compl. Writ., ii, 75. (C.W.J.)

Diaphorus Meigen.

leucostoma Loew. Mon. N. A. Dipt., ii, 166. (C.W.J.)
mundus Loew. *Ibid.*, ii, 161. (C.W.J.)
sodalis Loew. *Ibid.*, ii, 163. (C.W.J.)
spectabilis Loew. *Ibid.*, ii, 162. (C.W.J.)

Asyndetus Loew.

johnsoni Van Duzee. Psyche, xxiii, 93. (C.W.J.)

Chrysotus Meigen.

affinis Loew. Mon. N. A. Dipt., ii, 178. (C.W.J.)
auratus Loew. *Ibid.*, ii, 183.
discolor Loew. *Ibid.*, ii, 182.
obliquus Loew. *Ibid.*, ii, 176.

Argyra Macquart.

albicans Loew. Mon. N. A. Dipt., ii, 125. (C.W.J.)
aldrichi Johnson. Psyche, x, 18.
calcitrans Loew. Mon. N. A. Dipt., ii, 130.

Leucostola Macquart.

cingulata Loew. Mon. N. A. Dipt., ii, 152. (C.W.J.)

Porphyrops Meigen.

longipes Loew. Mon. N. A. Dipt., ii, 140. (C.W.J.)
melampus Loew. *Ibid.*, ii, 141. (C.W.J.)
nigricoxa Loew. *Ibid.*, ii, 145. (C.W.J.)

Syntormon Loew.

cinereiventris Loew. Mon. N. A. Dipt., ii, 137. (S.W.W.)

Sympycnus Loew.

lineatus Loew. Mon. N. A. Dipt., ii, 189.

Neurigona Rondani.

carbonifer Loew. Cent., x, 84. (C.W.J.)
rubella Loew. Mon. N. A. Dipt., ii, 227. (C.W.J.)
tarsalis Van Duzee. Ann. Ent. Soc. Am., vi, 51.

Hydrophorus Fallen.

intentus Aldrich. Psyche, xviii, 51.
parvus Loew. Mon. N. A. Dipt., ii, 216. (C.W.J.)
pirata Loew. *Ibid.*, ii, 214.

Rhaplium Meigen.

lugubre Loew. *Pelastoneura.* Mon. N. A. Dipt., ii, 105. (C.W.J.)

Dolichopus Latreille.

albicoxa Aldrich. Kans. Univ. Quart., ii, 10. (Ald. Cat.)
brevimanus Loew. Mon. N. A. Dipt., ii, 39. (C.W.J.)
calcaratus Aldrich. Kans. Univ. Quart., ii, 8. (C.W.J.)
comatus Loew. Mon. N. A. Dipt., ii, 69.
cuprinus Wiedemann. *Ibid.,* ii, 55.
detersus Loew. Kans. Univ. Quart., ii, 8. (C.W.J.)
eudactylus Loew. Mon. N. A. Dipt., ii, 48. (C.W.J.)
incisuralis Loew. *Ibid.,* ii, 74. (C.W.J.)
laticornis Loew. *Ibid.,* ii, 29. (Ald. Cat.)
latipes Loew. *Ibid.,* ii, 17. (Ald. Cat.)
longipennis Loew. *Ibid.,* ii, 57. (C.W.J.)
marginatus Aldrich. Kans. Univ. Quart., ii, 17.
melanocerus Loew. Mon. N. A. Dipt., ii, 330.
palæstricus Loew. *Ibid.,* ii, 328. (C.W.J.)
præustus Loew. *Ibid.,* ii, 68. (C.W.J.)
quadrilamellatus Loew. *Ibid.,* ii, 331. (C.W.J.)
ramifer Loew. *Ibid.,* ii, 52. (C.W.J.)
setifer Loew. *Ibid.,* ii, 30. (C.W.J.)
variabilis Loew. *Ibid.,* ii, 50.
vittatus Loew. *Ibid.,* ii, 55.

Gymnopternus Loew.

barbatulus Loew. Mon. N. A. Dipt., ii, 82. (S.W.W.)
crassicauda Loew. *Ibid.,* ii, 95.
flavus Loew. *Ibid.,* ii, 80.
lævigatus Loew. *Ibid.,* ii, 87.
opacus Loew. *Ibid.,* ii, 93.
ventralis Loew. *Ibid.,* ii, 97.
sp.

Pelastoneurus Loew.

lætus Loew. Mon. N. A. Dipt., ii, 106.
lamellatus Loew. *Ibid.,* ii, 338.
vagans Loew. *Ibid.,* ii, 107. (C.W.J.)

Family EMPIDIDÆ.

Drapetis Meigen.

gilvipes Loew. Trans. Am. Ent. Soc., xxviii, 212. (C.W.J.)
spectabilis Melander. *Ibid.*, xxviii, 212.

Platypalpus Macquart.

æqualis Loew. Trans. Am. Ent. Soc., xxviii, 222.

Tachydromia Meigen.

pusilla Loew. Trans. Am. Ent. Soc., xxviii, 229.

Hemerodromia Meigen.

defecta Loew. Trans. Am. Ent. Soc., xxviii, 235. (C. W. J.)
empiformis Say. *Ibid.*, xxviii, 236.

Litanomyia Melander.

elongata Melander. Trans. Am. Ent. Soc., xxviii, 232.

Clinocera Meigen.

lineata Loew. Cent., ii, 250. (C.W.J.)
sp.

Syneches Walker.

rufus Loew. Trans. Am. Ent. Soc., xxviii, 253.
simplex Walker. *Ibid.*, xxviii, 254.

Syndyas Loew.

polita Loew. Trans. Am. Ent. Soc., xxviii, 254.

Hybos Meigen.

electus Melander. Trans. Am. Ent. Soc., xxviii, 247. (C.W.J.)
slossonæ Coquillett. *Ibid.*, xxviii, 247.
triplex Walker. *Ibid.*, xxviii, 248.

Leptopeza Macquart.

compta Coquillett. Trans. Am. Ent. Soc., xxviii, 258. (C.W.J.)

Empis Linnæus.

distans Loew. Trans. Am. Ent. Soc., xxviii, 295.
otiosa Coquillett. *Ibid.*, xxviii, 302. (A.B.C.)
pœciloptera Loew. *Ibid.*, xxviii, 298. (C.W.J.)
sordida Loew. Cent., i, 29. (H.L.J.)
spectabilis Loew. Trans. Am. Ent. Soc., xxviii, 311.
tridentata Coquillett. *Ibid.*, xxviii, 301.

Hilara Meigen.

leucoptera Loew. Trans. Am. Ent. Soc., xxviii, 266.
mutabilis Loew. *Ibid.*, xxviii, 265. (C.W.J.)
trivittata Loew. *Ibid.*, xxviii, 265. (C.W.J.)
umbrosa Loew. *Ibid.*, xxviii, 264.
velutina Loew. *Ibid.*, xxviii, 264. (C.W.J.)

Rhamphomyia Meigen.

angustipennis Loew. Cent., i, 55.
aperta Loew. *Ibid.*, ii, 27. (H.L.J.)
brevis Loew. Proc. U. S. Nat. Mus., xviii, 414.
fumosa Loew. Cent., i, 39.
gilvipes Loew. *Ibid.*, i, 48. (C.W.J.)
irregularis Loew. *Ibid.*, v, 60.
longicauda Loew. Proc. U. S. Nat. Mus., xviii, 411.
manca Coquillett. *Ibid.*, xviii, 415-427.
mutabilis Loew. *Ibid.*, xviii, 411.
nana Loew. *Ibid.*, xviii, 414.
pulla Loew. *Ibid.*, xviii, 411-412. (Ald. Cat.)
pusio Loew. *Ibid.*, xviii, 414.
scolopacea Say. Compl. Writ., ii, 38. (C.W.J.)
umbilicata Loew. Cent., i, 65. (C.W.J.)

Family LONCHOPTERIDÆ.

Lonchoptera Meigen.

lutea Panzer. Faun. Germ., cviii, 20.
riparia Meigen. Syst. Beschr., iv, 108.

Family PHORIDÆ.

Paraspinophora Malloch.

multiseriata Aldrich. Trans. Am. Ent. Soc., xxix, 345 (C.W.J.)

Dohrniphora Dahlbom.

concinna Meigen. *nitidifrons* Brues. Trans. Am. Ent. Soc., xxix, 347.

Chætoneurophora Malloch.

spinipes Coquillett. Can. Ent., xxvii, 105.

Aphiochæta Brues.

approximata Malloch. Proc. U. S. Nat. Mus., 43, 483.
epeiræ Brues. Trans. Am. Ent. Soc., xxix, 358.
nigriceps Loew. Cent., vii, 99. (G.A.C.)
rufipes Meigen. Trans. Am. Ent. Soc., xxix, 368: Rept. Conn. Agr. Expt. Sta., 1909-10, 693.

Phora Latreille.

Trineura Meigen.

aterrima Fabricius. Trans. Am. Ent. Soc., xxix, 378. (C.W.J.)

Conocera Meigen.

atra Meigen. Trans. Am. Ent. Soc., xxix, 380.

Family PIPUNCULIDÆ.

Chalarus Walker.

spurius Fallen. Trans. Am. Ent. Soc., xxxvi, 274.

Pipunculus Latreille.

atlanticus Hough. Trans. Am. Ent. Soc., xxxvi, 294. (C.W.J.)
cingulatus Loew. *Ibid.*, xxxvi, 299.
minor Cresson. *Ibid.*, xxxvi, 293.
nitidiventris Loew. Proc. Bost. Soc. Nat Hist., xxix, 82.
pallipes Johnson. Ent. News, xiv, 107. (C.W.J.)
similis Hough. Trans. Am. Ent. Soc., xxxvi, 315. (C.W.J.)
subvirescens Loew. Proc. Bost. Soc. Nat. Hist., xxix, 84.

Family SYRPHIDÆ.

Microdon Meigen.

cothurnatus Bigot. Syn. N. A. Syrph., 8. (C.W.J.)
fuscipennis Macquart. *Ibid.*, 4. (C.W.J.)
globosus Fabricius. *Ibid.*, 4.
megalogaster Snow. Kans. Univ. Quart., i, 34. (C.W.J.)
ruficrus Williston. Syn. N. A. Syrph. 7. (Ald. Cat.)
tristis Loew. *Ibid.*, 6. (A.B.C.)

Chrysotoxum Meigen.

derivatum Walker. Syn. N. A. Syrph., 16. (C.W.J.)
laterale Loew. *Ibid.*, 14.
pubescens Loew. *Ibid.*, 15. (A.B.C.)

Chrysogaster Loew.

nigripes Loew. Syn. N. A. Syrph., 33.
nitida Wiedemann. *Ibid.*, 35.
pictipennis Loew. *Ibid.*, 37.
pulchella Williston. *Ibid.*, 35.

Pipiza Fallen.

albipilosa Williston. Syn. N. A. Syrph., 28
calcarata Loew. *Ibid.*, 24. (A.B.C.)
femoralis Loew. *Ibid.*, 26. (C.W.J.)
modesta Loew. *Ibid.*, 24.
pulchella Williston. Syn. N. A. Syrph., 29. (Ald. Cat.)
radicum Walsh and Riley. *pistica*. *Ibid.*, 29. (Ald. Cat.)

Paragus Latreille.

bicolor Fabricius. Syn. N. A. Syrph., 18.
tibialis Fallen. *Ibid.*, 19.

Chilosia Meigen.

cyanescens Loew. Syn. N. A. Syrph., 42. (Ald. Cat.)
pallipes Loew. *Ibid.*, 41.
tristis Loew. *Ibid.*, 293.

Myiolepta Newman.

nigra Loew. Cent. x, 52. (C.W.J.)

Baccha Fabricius.

cognata Loew. Syn. N. A. Syrph., 122.
fascipennis Wiedemann. *aurinota* Harris. *Ibid.*, 120.

Ocyptamus Macquart.

fuscipennis Say. *Baccha*. Syn. N. A. Syrph., 119. (Ald Cat.)

Pyrophæna Schiner.

granditarsus Fœrster. *ocymi*. Syn. N. A. Syrph. 55. (C.W.J.)

Platychirus St. Fargeau and Serville.

hyperboreus Stæger. Syn. N. A. Syrph., 57.
peltatus Meigen. *Ibid.*, 58. (C.W.J.)
quadratus Say. *Ibid.*, 57.

Melanostoma Schiner.

mellinum Linnæus. Syn. N. A. Syrph., 49.
obscurum Say. *Ibid.*, 48.

Didea Macquart.

fasciata Macquart. Syn. N. A. Syrph., 89. (A.B.C.)

Syrphus Fabricius.

amalopis Osten Sacken. Syn. N. A. Syrph., 69. (S.W.W.)
americanus Wiedmann. *Ibid.*, 82.
arcuatus Fallen. *Ibid.*, 68.
grossulariæ Meigen. *lesueurii*. Syn. N. A. Syrph., 80.
latifasciatus Macquart. *abbreviatus* Zetterstedt. *Ibid.*, 81.
perplexus Osburn. Jour. N. Y. Ent. Soc., xviii, 155.
ribesii Linnæus. Syn. N. A. Syrph., 77.
torvus Osten Sacken. *Ibid.*, 79.
xanthostomus Williston. *Ibid.*, 86

Allograpta Osten Sacken.

obliqua Say. Syn. N. A. Syrph., 96.

Xanthogramma Schiner.

æqualis Loew. Syn. N. A. Syrph., 95. (A.B.C.)
emarginata Say. *Ibid.*, 93. (A.B.C.)
felix Osten Sacken. *Ibid.*, 91. (S.W.W.)
flavipes Loew. *Ibid.*, 94.

Mesogramma Loew.

geminata Say. *Mesograpta*. Syn. N. A. Syrph., 102.
marginata Say. *Mesograpta*. *Ibid.*, 100.
polita Say. *Mesograpta*. *Ibid.*, 98.

Sphærophoria St. Fargeau and Serville.

cylindrica Say. Syn. N. A. Syrph., 105.

Sphegina Meigen.

campanulata Robertson. Can. Ent., xxxiii, 284. (C.W.J.)
keeniana Williston. Syn. N. A. Syrph., 113. (C.W.J.)
lobata Loew. *Ibid.*, 115. (C.W.J.)
rufiventris Loew. *Ibid.*, 114. (H.W.W.)

Neoascia Williston.

distincta Williston. Syn. N. A. Syrph., 112. (C.W.J.)
globosa Walker. *Ibid.*, 111.

Rhingia Scopoli.

nasica Say. Syn. N. A. Syrph., 130.

Brachyopa Meigen.

media Williston. Syn. N. A. Syrph., 132.

Volucella Geoffroy.

evecta Walker. Syn. N. A. Syrph., 136. (A.B.C.)
vesiculosa Fabricius. *Ibid.*, 141. (Ald. Cat.)

Sericomyia Meigen.

chrysotoxoides Macquart. Syn. N. A. Syrph., 157.
militaris Walker. *Ibid.*, 155. (A.B.C.)

Eristalis Latreille.

æneus Scopoli. Syn. N. A. Syrph., 161.
arbustorum Linnæus. Jour. N. Y. Ent. Soc., xxiii, 139.
bastardii Macquart. Syn. N. A. Syrph., 168.
brousi Williston. *Ibid.*, 165.
compactus Walker. *Ibid.*, 169. (S.W.W.)
dimidiatus Weidemann. *Ibid.*, 162.
flavipes Walker. *Ibid.*, 168.
saxorum Wiedemann. *Ibid.*, 163.
tenax Linnæus. *Ibid.*, 160.
transversus Wiedemann. *Ibid.*, 170.

Tropidia Meigen.

quadrata Say. Syn. N. A. Syrph., 207.

Helophilus Meigen.

chrysostomus Wiedemann. Syn. N. A. Syrph., 190.
conostoma Williston. *Ibid.*, 193.
distinctus Williston. *Ibid.*, 192.
hamatus Loew. *Ibid.*, 195.
integer Loew. *Ibid.*, 195.
lætus Loew. *Ibid.*, 189. (Ald. Cat.)
latifrons Loew. *Ibid.*, 188. (S.W.W.)
similis Macquart. *Ibid.*, 189.

Mallota Meigen.

cimbiciformis Fallen. Syn. N. A. Syrph., 202.
posticata Fabricius. *Ibid.*, 201. (A.B.C.)

Triodonta Williston.

curvipes Wiedemann. Syn. N. A., Syrph., 206.

Pterallastes Loew.

thoracicus Loew. Cent., iv, 80. (A.B.C.)

Teuchocnemis Osten Sacken.

lituratus Loew. Syn. N. A. Syrph., 200. (S.W.W.)

Syritta St. Fargeau and Serville.

pipiens Linnæus. Syn. N. A. Syrph., 240.

Xylota Meigen.*

angustipennis Loew. Syn. N. A. Syrph., 231.
bicolor Loew. *Ibid.*, 229. (A.B.C.)
chalybea Wiedemann. *Ibid.*, 233.
ejuncida Say. *Ibid.*, 229.
fraudulosa Loew. *Ibid.*, 230. (A.B.C.)
obscura Loew. *Ibid.*, 233. (C.W.J.)

Ferdinandea Rondani.

dives Osten Sacken. *Chrysochlamys.* West. Dipt., 340; Syn. N. A. Syrph., 241. (C.W.J.)

Brachypalpus Macquart.

frontosus Loew. Syn. N. A. Syrph., 221. (A.B.C.)

Criorhina Meigen.

analis Macquart. Syn. N. A. Syrph., 214. (A.B.C.)
badia Walker. *intersistens* Walker. *Ibid.*, 212.
decora Macquart. *Somula.* *Ibid.*, 216. (A.B.C.)
umbratilis Williston. *Cynorhina.* *Ibid.*, 212.

Milesia Latreille.

virginiensis Drury. *ornata.* Syn. N. A. Syrph., 255.

Spilomyia Meigen.

fusca Loew. Syn. N. A. Syrph., 246.
hamifera Loew. *Ibid.*, 247. (A.B.C.)
longicornis Loew. *Ibid.*, 245. (A.B.C.)
quadrifasciata Say. *Ibid.*, 248.

Sphecomyia.

vittata Wiedemann. Syn. N. A. Syrph., 257. (C.W.J.)

Temnostoma St. Fargeau and Serville.

alternans Loew. Syn. N. A. Syrph., 252.
bombylans Fabricius. *Ibid.*, 250. (Ald. Cat.)

* See also appendix.

Ceriodes Rondani.

Ceria Fabricius.

abbreviata Loew. Syn. N. A. Syrph., 261. (S.W.W.)

Eumerus Meigen.

strigatus Fallen. Lunate onion fly. Rept. N. Y. State Ent., 27, 119.

Family CONOPIDÆ.

Conops Linnæus.

brachyrhynchus Macquart. Trans. Conn. Acad. Sci., iv, 341.
sylvosus Williston. *Ibid.*, iv, 329.
xanthopareus Williston. Insect Book, pl. xxi, 37.

Physocephala Schiner.

sagittaria Say. Trans. Conn. Acad. Sci., vi, 391. (C.W.J.)
tibialis Say. Insect Book, pl. xv, 1.

Zodion Latreille.

fulvifrons Say. Insect Book, pl. xxi, 35.

Stylogaster Macquart.

biannulata Say. *Myopa.* Compl. Writ., ii, 72. (S.W.W.)
neglecta Williston. Trans. Conn. Acad. Sci., vi, 91. (S.W.W.)

Dalmannia Robineau-Desvoidy.

nigriceps Loew. Trans. Conn. Acad. Sci., vi, 94. (S.W.W.)

Oncomyia Robineau-Desvoidy.

abbreviata Loew. Trans. Conn. Acad. Sci., vi, 97.
baroni Williston. *Ibid.*, vi, 97. (C.W.J.)
loraria Loew. *Ibid.*, vi, 98.
modesta Williston var. **melanopoda** Williston. *Ibid.*, vi, 96, 393.

Myopa Fabricius.

clausa Loew. Trans. Conn. Acad. Sci., vi, 385.
vesiculosa Say. Compl. Writ., ii, 72.
vicaria Walker. List, iii, 679. (H.L.J.)

Family ŒSTRIDÆ.

Gastrophilus Leach.

equi Clark. Horse bot fly. Bur. Ent., Bull. 5, 76.

Œstrus Linnæus.

ovis Linnæus. Sheep bot fly. Bur. Ent., Bull. 5, 102.

Hypoderma Clark.

bovis DeGeer. Ox warble or bot fly. Bur. Ent., Bull. 5, 95.
lineata DeVilliers. Ent. News, iv, 299.

Cuterebra Clark.

buccata Fabricius. Mon. Œstriden, 247. (C.W.J.)
cuniculi Clark. Bur. Ent., Bull. 5, 108.

Family TACHINIDÆ.

Gymnoclytia Brauer and Bergenstamm.

immaculata Macquart. *Cistogaster.* Revis. Tachinid., 42.
occidua Walker. *Cistogaster.* Smith. Misc. Coll., li, 127.

Gymnosoma Meigen.

fulginosa Desvoidy. Insect Book, pl. xxii, 2.

Phorantha Rondani.

occidentis Walker. Revis. Tachinid., 44.

Alophora Desvoidy.

ænoventris Williston. Revis. Tachinid., 45, 47.
fumosa Coquillett. *Ibid.,* 46. (C.W.J.)

Trichopoda Latreille.

pennipes Fabricius. Insect Book, pl. xv, 25.
plumipes Fabricius. Revis. Tachinid., 48. (A.B.C.)

Myiophasia Brauer and Bergenstamm.

ænea Wiedemann. Revis. Tachinid., 50. (A.B.C.)

Cryptomeigenia Brauer and Bergenstamm.

theutis Walker. Revis. Tachinid., 52.

Dichætoneura Johnson.

leucoptera Johnson. Psyche, xiv, 9.

Polychætoneura Walton.

elyii Walton. Proc. Wash. Ent. Soc., vi, 91.

Actia Desvoidy.

pilipennis Fallen. Revis. Tachinid., 59.

Chætophleps Coquillett.

setosa Coquillett. Revis. Tachinid., 59. (C.W.J.)

Celatoria Coquillett.

spinosa Coquillett. Revis. Tachinid., 60. (C.W.J.)

Hypostena Meigen.

Tachinophyto Tower.

barbata Coquillett. Revis. Tachinid., 62. (C.W.J.)
dunningii Coquillett. *Ibid.*, 60.
flaveola Coquillett. *Ibid.*, 61.
floridensis Townsend. *Ibid.*, 62.
variabilis Coquillett. *Ibid.*, 62.

Macquartia Desvoidy.

pristis Walker. Revis. Tachinid., 64.

Polidea Macquart.

areos Walker. Revis. Tachinid., 64.

Leskia Desvoidy.

analis Say. Revis. Tachinid., 67. (A.B.C.)
thecata Coquillett. *Ibid.*, 67. (A.B.C.)

Leskiomima Brauer and Bergenstamm.

tenera Wiedemann. Revis. Tachinid., 67.

Leucostoma Meigen.

senilis Townsend. Revis. Tachinid., 69. (C.W.J.)

Hyalomyodes Townsend.

triangulifera Loew. Revis. Tachinid., 70.

Œstrophasia Brauer and Bergenstamm.

signifera Van der Wulp. Biol. Dipt., ii, 167. (H.L.J.)

Xanthomelanodes Townsend.

arcuata Say. *Xanthomelana.* Revis. Tachinid., 75. (H.L.V.)

Hemyda Desvoidy.

aurata Desvoidy. Revis. Tachinid., 73.

Eutrixa Coquillett.

exile Coquillett. Revis. Tachinid., 72. (C.W.J.)

Epigrymyia Townsend.

polita Townsend. Trans. Am. Ent. Soc., xviii, 376. (C.W.J.)

Siphona Meigen.

brevirostris Coquillett. Revis. Tachinid., 76. (C.W.J.)
geniculata DeGeer. *Ibid.*, 75.

Cyrtophlœba Rondani.

horrida Coquillett. Revis. Tachinid., 78.

Paraplagia Brauer and Bergenstamm.

spinosula Bigot. Revis. Tachinid., 77. (W.E.B.)

Senotainia Macquart.

trilineata Van der Wulp. Revis. Tachinid., 81.

Belvosia Desvoidy.

bifasciata Fabricius. Smith Misc. Coll., li, 104. (C.W.J.)

Goniomima Townsend.

unifasciata Desvoidy. Revis. Tachinid., 84. (A.B.C.)

Melanophrys Williston.

insolita Walker. Revis. Tachinid., 85. (C.W.J.)

Ocyptera Latreille.

carolinæ Desvoidy. Insect Book., pl. xv, 29.
dosiades Walker. Revis. Tachinid., 86.

Linnæmyia Desvoidy.

hæmorrhoidalis Fallen. *picta* Meigen. Revis. Tachinid., 87.

Bonnetia Desvoidy.

compta Fallen. Revis. Tachinid., 87.

Ernestia Desvoidy.

Panzeria.

radicum Fabricius. Insect Book, pl. xv, 28.
ruficauda Brauer. *Hystricia. aldrichii* Townsend. Smith. Misc. Coll., li, 109. (H.E.S.)

Macromeigenia Brauer and Bergenstamm.

chrysoprocta Wiedemann. Revis. Tachinid., 89. (A.B.C.)

Gymnochæta Desvoidy.

alcedo Loew. Cent., viii, 61.
fuficornis Williston. Trans. Am. Ent. Soc., xiii, 302. (C.W.J.)

Exoristoides Coquillett.

slossonæ Coquilett. Revis. Tachinid., 90. (H.E.S.)

Exorista Meigen.

boarmiæ Coquillett. Revis. Tachinid., 95. (H.E.S.)
confinis Fallen. *Ibid.*, 97.
eudryæ Townsend. *Ibid.*, 100. (C.W.J.)
futilis Osten Sacken. *Ibid.*, 98. (S.W.W.)
petiolata Coquillett. *Ibid.*, 98.
cheloniæ Rondani. *Ibid.*, 92. (H.E.S.)
vulgaris Fallen. *Ibid.*, 93. (H.E.S.)
pyste Walker. *Ibid.*, 93.

Compsilura Bouché.

concinnata Meigen. U. S. Dept. Agr., Bull. 204, fig. 2.

Phorocera Desvoidy.

claripennis Macquart. Insect Book, pl. xxii, 6.
erecta Coquillett. Proc. U. S. Nat. Mus., xxv, 112.

Neopales Coquillett.

einaris Smith. Proc. Wash. Ent. Soc., xiv, 119.
slossonæ Townsend. Smith. Misc. Coll., li, 108. (H.E.S.)
leucaniæ Coquillett. Revis. Tachinid., 104. (C.W.J.)
tortricis Coquillett. *Ibid.*, 103. (A.B.C.)

Doryphorophaga Townsend.

doryphoræ Riley. Revis. Tachinid., 104.

Frontina Meigen.

aberrans Townsend. Ent. News., xxvii, 217.
aletiæ Riley. Can. Ent., xi, 162.
ancilla Walker. Revis. Tachinid., 106.
frenchii Williston. *Ibid.*, 107.

Sturmia Desvoidy.

albifrons Walker. Revis. Tachinid., 109.
nidicola Townsend. *Zygobothria.* Bur. Ent., Bull. 91, 289.
nigrita Townsend. Trans. Am. Ent. Soc., xviii, 358.
phyciodis Coquillett. Revis. Tachinid., 109. (C.W.J.)

Masicera Macquart.

myoidea Desvoidy. Revis. Tachinid., 114.
rutila Meigen. *Ibid.*, 114. (H.L.V.)

Acemyia Desvoidy.

dentata Coquillett. Revis. Tachinid., 116. (D.W.C.)

Tachina Meigen.*

mella Walker. Revis. Tachinid., 119.
robusta Townsend. *Ibid.*, 119.
rustica Fallen. *Ibid.*, 119.

Neofischeria Townsend.

flava Townsend. Taxonomy, 75. (C.W.J.)

Blepharipeza Macquart.

adusta Loew. Insect Book, pl. xxii, 18, 22. (A.B.C.)
leucophrys Wiedemann. Revis. Tachinid., 124.

Winthemia Desvoidy.

quadripustulata Fabricius. Insect Book, pl. xxii, 4.

Paradidyma Brauer and Bergenstamm.

singularis Townsend. Revis. Tachinid., 126.

Metachæta Coquillett.

helymus Walker. Revis. Tachinid., 126.

Phorichæta Rondani.

sequax Williston. Revis. Tachinid., 126. (B.H.W.)

Metopia Meigen.

lateralis Macquart. Revis. Tachinid., 127. (C.W.J.)
leucocephala Rossi. Can. Ent., xliii, 314; xliv, 170.

Araba Desvoidy.

tergata Coquillett. Jour. N. Y. Ent. Soc., iii, 103. (G.D.)

Opsidia Coquillett.

gonoides Coquillett. Revis. Tachinid., 128. (J.A.H.)

Hilarella Rondani.

fulvicornis Coquillett. Revis. Tachinid., 128. (H.L.V.)
polita Townsend. *Ibid.*, 129.

Brachycoma Rondani.

apicalis Coquillett. Revis. Tachinid., 131. (D.W.C.)

Gonia Meigen.

capitata DeGeer. Insect Book, pl. xv, 26, 31.
distincta H. E. Smith. Psyche, xxii, 99.
senilis Williston. Can. Ent., xix, 10.

Spallanzania Desvoidy.

bucephala Meigen. *hebes* Rondani. Revis. Tachinid., 135. (C.W.J.)
hesperidarum Williston. *Ibid.*, 135.

* See also appendix.

Gædiopsis Brauer and Bergenstamm.

ocellaris Coquillett. Proc. U. S. Nat. Mus., xxv, 118. (A.B.C.)

Microphthalma Macquart.

disjuncta Wiedemann. Revis. Tachinid., 138.

Tricophora Macquart.

ruficauda Van der Wulp. Revis. Tachinid., 139.

Cuphocera Macquart.

fucata Van der Wulp. Revis. Tachinid., 140.
prompta Zetterstedt. *Ibid.*, 141.

Peleteria Desvoidy.

robusta Wiedemann. Revis. Tachinid., 141.
prompta Zetterstedt. *Ibid.*, 141.

Archytas Jænnicke.

analis Fabricius. Insect Book, pl. xxii, 10.
aterrima Desvoidy. *Ibid.*, pl. xv, 33.
hystrix Fabricius. Revis. Tachinid., 142.
lateralis Macquart. Insect Book, pl. xxii, 14.

Echinomyia Dumeril.

algens Wiedemann. Insect Book, pl. xv, 27.
decisa Walker. Revis. Tachinid., 143. (S.W.W.)
florum Walker. *Ibid.*, 144. (H.L.J.)

Epalpus Rondani.

signifera Walker. Insect Book., pl. xxii, 12.

Bombyliomyia Brauer and Bergenstamm.

abrupta Wiedemann. Insect Book, pl. xv, 22.

Jurinia Desvoidy.

adusta Van der Wulp. *metallica.* Insect Book, pl. xv, 27; pl. xxii, 16, 27.

Family DEXIIDÆ.

Myiocera Desvoidy.

simplex Bigot? Annales, 1888, 266.

Melanophora Meigen.

roralis Linnæus. Syst. Beschr., iv, 284.

Ptilodexia Brauer and Bergenstamm.

harpasa Walker. *tibialis. Myiocera.* Myodaires, 306.

Thelaira Desvoidy.

leucozona Panzer. Insect Book., pl. xxii, 24.

Theresia Desvoidy.

tandrec Desvoidy. Myodaires, 326.

Family SARCOPHAGIDÆ.

Sarcophaga Meigen.

bullata Parker. Can. Ent., xlviii, 359.
çimbicis Townsend. *Ibid.,* xxiv, 126.
communis Parker. Proc. Bos. Soc. Nat. Hist., 35, 55.
fernaldi Parker. *Ibid.,* 35, 72.
hæmorrhoidalis Fallen. Sarcoph. N. A., 189.
helicis Townsend. *Ibid.,* 158.
latisetosa Parker. Proc. Bos. Soc. Nat. Hist., 35, 63.
latisterna Parker. *Ibid.,* 35, 67. (C.W.J.)
peniculata Parker. *Ibid.,* 35, 58.
quadrisetosa Coquillett. *Helicobia.* Ent. News, xii, 17.
scoparia Pandellé. Sarcoph. N. A., 214.
scoparia var. **nearctica** Parker. Can. Ent., xlviii, 422.
sinuata Meigen. Sarcoph. N. A., 67.
tuberosa Pandelé var. **sarracenioides** Aldrich. *Ibid., 227.*

Sarcofahrtia Parker.

atlantica Parker. Ent. News. xxxiii, 203.
ravinia Parker. Psyche, xxiii, 131.

Family MUSCIDÆ.

Pollenia Desvoidy.

rudis Fabricius. Cluster fly. Insect Book, pl. xxii, 28.

Chrysomyia Desvoidy.

macellaria Fabricius. Screw worm fly. La. Agr. Expt. Sta., Bull. 2, Sec. ser.

Cynomyia Desvoidy.

cadaverina Desvoidy. Insect Book, pl. xv, 21.

Calliphora Desvoidy.

erythrocephala Meigen. Common blow fly. Insect Book, pl. xv, 16.

vomitoria Linnæus. Blue bottle fly. Minn. Agr. Expt. Sta., Bull. 48, 188.

Protocalliphora Hough.

azurea Fallen. Zool. Bull., ii, 289. (C.W.J.)

Lucilia Desvoidy.

cæsar Linnæus. Insect Book, pl. xv, 20.

sericata Meigen. *Musca.* Syst. Beschr., v, 53.

sylvarum Meigen. *Ibid.*, v, 53.

Phormia Desvoidy.

regina Meigen. *Musca.* Syst. Beschr., v, 58.

terræ-novæ Desvoidy. Zool. Bull., ii, 289.

Orthellia Desvoidy.

Pseudopyrellia Girschner.

cornicina Fabricius. Syst. Beschr., v, 57.

Pyrellia Desvoidy.

serena Meigen. *cyanicolor* Zetterstedt. Dipt. Scand., iv, 1323.

Morellia Desvoidy.

micans Macquart. Insect Book., pl. xv, 11.

Musca Linnæus.

domestica Linnæus. House fly. Insect Book, pl. xv, 6.

Graphomyia Desvoidy.

maculata Scopoli. Syst. Beschr., v, 78.

Stomoxys Geoffroy.

calcitrans Linnæus. Biting house fly. Proc. Bost. Soc. Nat. Hist., xvi, 136.

Hæmatobia St. Fargeau and Serville.

irritans Linnæus. *serrata. cornicola.* Horn fly. Rept. N. Y. State Ent., No. 5, 220.

Myiospila Rondani.

meditabunda Fabricius. Syst. Beschr., v, 79.

Muscina Desvoidy.

assimilis Fallen. Syst. Beschr., v, 76. (H.L.V.)

stabulans Fallen. Stable fly. Insect Book, pl. xxii, 33.

Family ANTHOMYIDÆ.

Hydrotæa Desvoidy.

armipes Fallen. Fauna Aust., i, 616. (H.L.V.)

Ophyra Desvoidy.

leucostoma Wiedemann. Syst. Beschr., v, 160.

Fannia Desvoidy.

Homalomyia Bouché.

canalicularis Linnæus, Fauna Aust., i, 654. (C.W.J.)
scalaris Fabricius. Syst. Beschr., v, 141.

Hyetodesia Rondani.

deleta Stein. Berl. Ent. Zeitsch., xlii, 178. (C.W.J.)
lucorum Fallen. Syst. Beschr., v, 85. (H.L.V.)

Spilogaster Macquart.

uniseta Stein. Berl. Ent. Zeitsch., vlii, 192. (H.L.J.)
urbana Meigen. *Ibid.*, xlii, 196.

Limnophora Desvoidy.

diaphana Wiedemann. Syst. Beschr., v, 189.
narona Walker. *Cyrtoneurina*. Berl. Ent. Zeitsch., xvii, 203.

Anthomyia Meigen.

albicincta Fallen. Syst. Beschr., v, 161.
pluvialis Linnæus. *Ibid.*, v, 163. (H.L.J.)
pratincola Panzer. *Ibid.*, v, 163.
radicum Linnæus. Rept. N. Y. State Ent., No. 1, 191.

Hylemyia Desvoidy.

alcathoe Walker. List., iv, 937. (C.W.J.)
johnsoni Stein. Berl. Ent. Zeitschr., xvii, 215, 285. (C.W.J.)

Phorbia Desvoidy.

brassicæ Bouché. Cabbage maggot. Cornell Agr. Expt. Sta., Bull. 78; Rept. Conn. Agr. Expt. Sta., 1914, 142.
ceparum Meigen. Onion maggot. Rept. Conn. Agr. Expt. Sta., 1911, 286.
cepetorum Meade. Ent. Monthl. Mag., 1882, 218. (C.W.J.)
cinerella Fallen. Proc. Wash. Acad. Sci., ii, 583.
fusciceps Zetterstedt. *cilicrura*. Seed-corn maggot. Bur. Ent., Bull. 43, 68.

latipennis Zetterstedt. Dipt. Scand., iv, 1509. (C.W.J.)
rubivora Coquillett. Raspberry cane maggot. Rept. Conn. Agr. Expt. Sta., 1902, 167.

Pegomyia Desvoidy.

calyptrata Zetterstedt. Berl. Ent. Zeitschr., xlii, 237.
hyoscyami Panzer. *vicina* Lintner. Beet or spinach leaf-miner. Ins. Life, vii, 379.
vittiger Zetterstedt. Ins. Lapp., 1838, 164, 697.
winthemi Meigen. *latitarsis* Zetterstedt. Fauna Aust., i, 635. (C.W.J.)

Dialyta Meigen.

flavitibia Johannsen. Trans. Am. Ent. Soc., lxii, 394.

Caricea Desvoidy.

albicornis Meigen. Fauna Aust., i, 664. (C.W.J.)

Cœnosia Meigen.

ausoba Walker. Berl. Ent. Zeitschr., xlii, 260.
calopyga Loew. Cent., x, 71. (C.W.J.)
flavipes Stein. Berl. Ent. Zeitschr., xlii, 268.
lata Walker. Dipt. Saund., 368.
nivea Loew. Cent., x, 70.
tibialis Stein. Berl. Ent. Zeitschr., xlii, 275. (C.W.J.)

Dexiopsis Pokorny.

lacteipennis Zetterstedt. Dipt. Scand., iv, 1722.

Schœnomyza Halliday.

chrysostoma Loew. Cent., ix, 86.
dorsalis Loew. Cent., x, 73.

Lispa Latreille.

albitarsis Stein. Berl. Ent. Zeitschr., xlii, 277. (C.W.J.)
uliginosa Fallen. Fauna Aust., i, 661.

Fucellia Desvoidy.

marina Macquart. *fucorum*. Proc. Wash. Acad. Sci., ii, 453.

Family SCATOPHAGIDÆ.

Cordylura Fallen.

adusta Loew. Cent., iii, 41.
confusa Loew. *Ibid.*, iii, 43. (C.W.J.)
gilvipes Loew. *Ibid.*, iii, 49. (C.W.J.)
munda Loew. *Ibid.*, iii, 91.

pleuritica Loew. *Ibid.*, iii, 42. (A.B.C.)
setosa Loew. *Ibid.*, iii, 44.
slossonæ Coquillett. Jour. N. Y. Ent. Soc., vi, 164. (H.L.J.)
variabilis Loew. Zeitsch. f. Ges Naturwiss, 1876, 326.

Mosina Desvoidy.

variapes Walker. List. Dipt., 4, 1046. (H.L.J.)

Scatophaga Meigen.

furcata Say. Compl. Writ., ii, 85.
merdaria Fabricius. Dipt. Scand., v, 1970. (C.W.J.)
stercoraria Linnæus. Insect Book, pl. xv, 19.

Family HETERONEURIDÆ.

Clusia Halliday.

lateralis Walker. *spectabilis.* Cent., iv. 92.

Family HELOMYZIDÆ.

Helomyza Fallen.

quinquepunctata Say. Compl. Writ., ii, 86. (C.W.J.)

Scoliocentra Loew.

helvola Loew. Cent., ii, 80.

Œcothea Haliday.

fenestralis Fallen. Syst. Beschr., vi, 56.

Tephrochlamys Loew.

rufiventris Meigen. Syst. Beschr., vi, 58.

Family BORBORIDÆ.

Leptocera Olivier.

Limosina Macquart.

limosa Meigen. Syst. Beschr., vi, 207.

Borborus Meigen.

equinus Fallen. Proc. Wash. Acad. Sci., ii, 594.

Sphærocera Latreille.

subsultans Fabricius. Proc. Wash. Acad. Sci., ii, 596.

Family DRYOMYZIDÆ.

Neuroctena Rondani.

anilis Fallen. *Dryomyza pallida* Day. Can. Ent., xiii, 89. (S.W.W.)

Family SCIOMYZIDÆ.*

Sciomyza Fallen.

nana Fallen. Mon. N. A. Dipt., i, 104.
pubera Loew. *Ibid.*, i, 106. (H.L.V.)

Pœcilomyia Melander.

decora Loew. *Sapromyza.* Cent., v, 96.

Hedroneura Hendel.

rufa Panzer. *lineata* Day. Can. Ent., xiii, 88.

Tetanocera Dumeril.

arcuata Loew. Mon. N. A. Dipt., i, 115. (C.W.J.)
clara Loew. Insect Book, pl. xxii, 36. (A.B.C.)
combinata Loew. Can. Ent., xiii, 85.
pallida Loew. Mon. N. A. Dipt., i, 113.
plebeia Loew. *Ibid.*, i, 120.
plumosa Loew. Insect Book, pl. xv, 14.
saratogensis Fitch. Ins. N. Y., 68.
setosa Coquillett. Proc. U. S. Nat. Mus., xxiii, 615. (C.W.J.)
sparsa Loew. Mon. N. A. Dipt., i, 117. (S.W.W.)
umbrarum Linnæus. Can. Ent., xiii, 85.
valida Loew. Mon. N. A. Dipt., i, 110. (A.B.C.)

Sepedon Latreille.

armipes Loew. Mon. N. A. Dipt., 1, 126. (C.W.J.)
fuscipennis Loew. Insect Book, pl. xxii, 41.
pusillus Loew. Mon. N. A. Dipt., i, 127.

Family SAPROMYZIDÆ.

Lonchæa Fallen.

polita Say. Compl. Writ., ii, 371. (A.B.C.)
rufitarsus Macquart. Dipt. Exot. (Suppl.), iv, 300.

Lauxania Latreille.

cylindriformis Fabricius. Proc. Wash. Acad. Sci., ii, 400.
gracilipes Loew. Cent., i, 84. (C.W.J.)
obscura Loew. *Ibid.*, i, 84.

* See also appendix.

Minettia Desvoidy.

annulata Melander. Psyche, xx, 73. (C.W.J.)
lupulina Fabricius. Proc. Wash. Acad. Sci., ii, 460.
quadrilineata Loew. Cent., i, 78.
valida Walker. *macula* Loew. *Ibid.*, x, 82. (C.W.J.)

Sapromyza Fallen.

compedita Loew. Cent., i, 76.
disjuncta Johnson. Psyche, xxi, 22. (C.W.J.)
fraterna Loew. Cent., i, 77. (C.W.J.)
houghii Coquillett. Can. Ent., xxx, 277.
notata Fallen. Psyche, xx, 68. (C.W.J.)
philadelphica Macquart. Dipt. Exot. (Suppl.), ii, 3, 191.

Camptoprosopella Hendel.

vulgaris Fitch. Ins. N. Y., i, 300.

Family ORTALIDÆ.

Pyrgota Wiedemann.

chagnoni Johnson. Can. Ent., xxxii, 246. (A.B.C.)
undata Wiedemann. Insect Book, pl. xv, 4.
valida Harris. *Ibid.*, pl. xv, 9.

Amphicnephes Loew.

pulla Wiedemann. *pertusus*. Mon. N. A. Dipt., iii, 84.

Rivellia Desvoidy.

conjuncta Loew. Mon. N. A. Dipt., iii, 88.
flavimanus Loew. *Ibid.*, iii, 92.
pallida Loew. *Ibid.*, iii, 95.
quadrifasciata Macquart. *Ibid.*, iii, 90.
viridulans Desvoidy. *Ibid.*, iii, 88.

Myrmecothea Hendel.

Myrmecomyia Desvoidy.

myrmecoides Loew. Mon. N. A. Dipt., iii, 100. (A.B.C.)

Tritoxa Loew.

flexa Wiedemann. Mon. N. A. Dipt., iii, 102.
incurva Loew. Insect Book, pl. xxii, 40.

Camptoneura Macquart.

picta Fabricius. Insect Book, pl. xv, 10.

Idana Loew.

marginata Say. Compl. Writ., ii, 368. (A.B.C.)

Tephronota Loew.

narytia Walker. *ruficeps. humilis.* Mon. N. A. Dipt., iii, 123. (C.W.J.)

Melieria Desvoidy.

similis Loew. Mon. N. A. Dipt., iii, 127. (C.W.J.)

Tetanops Fallen.

luridipennis Loew. Mon. N. A. Dipt., iii, 119. (C.W.J.)

Callopistria Loew.

annulipes Macquart. Mon. N. A. Dipt., iii, 141. (C.W.J.)

Pseudotephritis Johnson.

corticalis Loew. Mon. N. A. Dipt., iii, 136. (C.W.J.)

Chrysomyza Fallen.

demandata Fabricius. Fauna Aust., ii, 85.

Euxesta Loew.

notata Wiedemann. Mon. N. A. Dipt., iii, 156.

Chætopsis Loew.

ænea Wiedemann. Compl. Writ., ii, 368.

apicalis Johnson. Ent. News, xi, 326.

fulvifrons Macquart. Dipt. Exot. (Suppl.), v, 125. (C.W.J.)

Seoptera Kirby.

vibrans Linnæus. Mon. N. A. Dipt., ii, 153.

Stenomyia Loew.

tenuis Loew. Mon. N. A. Dipt., iii, 173.

Eumetopia Macquart.

rufipes Macquart. Mon. N. A. Dipt., iii, 175.

Family TRYPETIDÆ.

Straussia Desvoidy.

longipennis Wiedemann. Mon. N. A. Dipt., i, 65.

Stenopa Loew.

vulnerata Loew. Mon. N. A. Dipt., iii, 232. (Psyche.)

Acidia Desvoidy.

fratria Loew. Mon. N. A. Dipt., i, 67. (C.W.J.)

suavis Loew. *Ibid.*, iii, 235. (C.W.J.)

Spilographa Loew.

electa Say. Compl. Writ., ii, 396. (Ald. Cat.)

Œdaspis Loew.

atra Loew. Cent., ii, 74.

polita Loew. Mon. N. A. Dipt., i, 77. (Ald. Cat.)

Rhagoletis Loew.

cingulata Loew. *Trypeta.* Cherry maggot. Cornell Agr. Expt. Sta., Bull. 172.

pomonella Walsh. Apple maggot. Railroad worm. Rept. Me. Agr. Expt. Sta., 1889, 190; Rept. Conn. Agr. Expt. Sta., 1909-10, 593.

Eutreta Loew.

sparsa Wiedemann. Compl. Writ., ii, 370.

Eurosta Loew.

comma Wiedemann. Mon. N. A. Dipt., i, 93.

conspurcata Doane. Jour. N. Y. Ent. Soc., vii, 186.

elsa Dæcke. Ent. News, xxi, 342.

latifrons Loew. Mon. N. A. Dipt., i, 89.

reticulata Snow. Kans. Univ. Quart., ii, 170.

solidaginis Fitch. Mon. N. A. Dipt., i, 82.

Aciura Desvoidy.

limata Coquillett. Jour. N. Y. Ent. Soc., vii, 263. (C.W.J.)

Icterica Loew.

seriata Loew. Mon. N. A. Dipt., i, 84.

Tephritis Latreille.

platyptera Loew. Mon. N. A. Dipt., iii, 306.

Neaspilota Osten Sacken.

albidipennis Loew. Cent., i, 73. (C.W.J.)

Euaresta Loew.

bella Loew. Mon. N. A. Dipt., ii, 88.

festiva Loew. *Ibid.*, i, 86.

pura Loew. *Ibid.*, iii, 320. (H.L.J.)

Family MICROPEZIDÆ.

Tæniaptera Macquart.

antennipes Say. Compl. Writ., ii, 83.

divaricata Cresson. Ent. News., xxv, 459. (C.W.J.)

Calobata Meigen.

alesia Walker. List. iv, 1048. (C.W.J.)
univitta Walker. *Ibid.*, iv, 1049. (C.W.J.)

Family SEPSIDÆ.

Sepsis Fallen.

neocynipsea Melander. Wash. Agr. Expt. Sta., Bull. 143, 28.
signifera Melander. *curvitibia* Melander. *Ibid.*, Bull. 143, 28.
violacea Meigen. *Ibid.*, Bull. 143, 20.

Nemopoda Desvoidy.

cylindrica Fabricius. Syst. Beschr., v, 290.

Meroplius Rondani.

stercoraria Desvoidy. *Nemopoda minuta.* Myodaires, 745.

Themira Desvoidy.

flavicoxa Melander. Wash. Agr. Expt. Sta., Bull. 143, 46.

Piophila Fallen.

casei Linnæus. Cheese skipper. Rept. N. Y. State Ent., xii, 229.

Family PSILIDÆ.

Loxocera Meigen.

cylindrica Say. Compl. Writ., ii, 84. (H.L.V.)
pectoralis Loew. Cent., viii, 64. (A.B.C.)
pleuritica Loew. *Ibid.*, viii, 65. (C.W.J.)
pleuritica var. **obsoleta** Johnson. Psyche, xxvii, 16.

Chyliza Fallen.

apicalis Loew. Cent., viii, 72. (C.W.J.)
notata Loew. *annulipes* Macquart. *Ibid.*, ix, 99. (A.B.C.)

Psila Meigen.

bivittata Loew. Cent., viii, 67. (Ald. Cat.)
collaris Loew. *Ibid.*, viii, 68. (Ald. Cat.)

Family DIOPSIDÆ.

Sphyracephala Say.

brevicornis Say. Compl. Writ., i, 116. (C.W.J.)

Family EPHYDRIDÆ.

Dichæta Meigen.

caudata Fallen. Mon. N. A. Dipt., i, 133.

Notiphila Fallen.

bella Loew. Mon. N. A. Dipt., i, 135. (C.W.J.)
bispinosa Cresson. Trans. Am. Ent. Soc., xliii, 58.
scalaris Loew. Mon. N. A. Dipt., i, 134.
olivacea Cresson. Trans. Am. Ent. Soc., xliii, 52.

Gastrops Williston.

nebulosa Coquillett. Can. Ent. xxxii, 34.

Typopsilopa Cresson.

atra Loew. Mon. N. A. Dipt., i, 142.

Hydrellia Desvoidy.

formosa Loew. Cent., i, 94.

Psilopa Fallen.

atrimanus Loew. Zeitsch. f. Ges. Naturwiss., 1878, 197.
flavida Coquillett. Can. Ent., xxxii, 33. (C.W.J.)

Ilythea Haliday.

spilota Curtis. Brit. Ent., 413. (C.W.J.)

Ochthera Latreille.

mantis DeGeer. Ent. News., vii, 123. (W.M.W.)

Parydra Stenhammar.

bituberculata Loew. Mon. N. A. Dipt., i, 165.
breviceps Loew. *Ibid.*, i, 167.
imitans Loew. Zeitsch. f. Ges., Naturwiss., 1878, 201.

Mosillus Latreille.

tibialis Cresson. Ent. News, xxvii, 149.

Ephydra Fallen.

atrovirens Loew. Mon. N. A. Dipt., i, 169.
subopaca Loew. Cent., v, 99.

Cirrula Cresson.

gigantea Cresson. Ent. News, xxvi, 71. (C.W.J.)

Scatella Desvoidy.

lugens Loew. Mon. N. A. Dipt., i, 171.
stagnalis Fallen. Proc. Wash. Acad. Sci., ii, 462.

Dimecænia Cresson.

spinosa Loew. Cent. v, 100.

Family CHLOROPIDÆ.

Meromyza Meigen.

americana Fitch. Greater wheat stem maggot. Bur. Ent., Bull. 42, New ser., 43.

flavipalpis Malloch. Can. Ent., xlvi, 117. (C.W.J.)

Chlorops Meigen.

abdominalis Coquillett. Proc. Acad. Nat. Sci. Phila., 1895, 318. (C.W.J.)

crocota Loew. Cent., iii, 89. (C.W.J.)

melanocera Loew. *Ibid.*, iii, 91.

rufescens Coquillett. Can. Ent., xlii, 45. (C.W.J.)

Chloropisca Loew.

glabra Meigen. *assimilis* Macquart. Jour. N. Y. Ent. Soc., vi, 47.

grata Loew. Cent., iii, 92. (C.W.J.)

variceps Loew. *Ibid.*, iii, 86. (H.L.V.)

Parectecephala Becker.

eucera Loew. Cent., iii, 85.

Cetema Hendel.

procera Loew. Cent., x, 92. (C.W.J.)

Anthracophaga Loew.

sanguinolenta Loew. Cent., iii, 84.

Diplotaxa Loew.

versicolor Loew. Cent., iii, 97.

Hippelates Loew.

flavipes Loew. Cent., vii, 95.

nobilis Loew. *Ibid.*, iii, 97.

pusio Loew. *Ibid.*, x, 87.

Crassiseta Von Roser.

Elachiptera Macquart.

costata Loew. Cent., iii, 62.

Melanochæta Bezzi.

eunota Loew. *Ibid.*, x, 89. (C.W.J.)

longula Loew. *Ibid.*, iii, 84.

Siphonella Macquart.

cinerea Loew. Cent., iii, 81. (C.W.J.)

lævigata Fallen. Fauna Aust., ii, 229. (C.W.J.)

Botanobia Livy.

Oscinis Latreille.

coxendix Fitch. Ins. N. Y., 301.

soror Macquart. American frit-fly. Bur. Ent., Bull. 42, New ser., 57.

Family DROSOPHILIDÆ.

Phortica Schiner.

vittata Coquillett. Proc. U. S. Nat. Mus., xxiii, 618. (C.W.J.)

Drosophila Fallen.

adusta Loew. *Scaptomyza.* Native cabbage leaf-miner. Bur. Ent., New ser., Bull. 33, 76.

amœna Loew. Pretty pomace fly. Rept. U. S. Dept. Agr., 1881-2, 201.

ampelophila Loew. *melanogaster* Meigen. Vine-loving pomace fly. *Ibid.,* 1881-2, 198.

busckii Coquillett. Ent. News, xii, 18. (C.W.J.)

flaveola Meigen. *Scaptomyza.* Imported turnip leaf-miner. Bur. Ent., New ser., Bull. 33, 75.

funebris Fabricius. Proc. U. S. Nat. Mus., xxii, 264.

graminum Fallen. *Scaptomyza.* Imported cabbage leaf-miner. Bur. Ent., New ser., Bull. 33, 76.

ordanaria Coquillett. Proc. Ent. Soc. Wash., vi, 190. (C.W.J.)

quinaria Loew. Cent., vi, 90.

Family GEOMYZIDÆ.

Diastata Meigen.

nebulosa Fallen. Syst. Beschr., vi, 98.

Family AGROMYZIDÆ.

Phytomyza Fallen.

aquilegiæ Hardy. Columbine leaf-miner. Rept. Conn. Agr. Expt. Sta., 1894, 145.

diminuta Walker. Trans. Ent. Soc. Lond., New ser., iv, 232.

Napomyza Haliday.

chrysanthemi Kowarz. *Phytomyza.* Chrysanthemum leaf-miner. Bur. Ent., Bull. 10, New ser., 79.

Cerodontha Rondani.

dorsalis Loew. *Odontocera. Ceratomyza.* Corn leaf-miner. Rept. Conn. Agr. Expt. Sta., 1894, 143.

Agromyza Fallen.

æneiventris Fallen. Bur. Ent., Bull. 10, New ser., 78.
angulata Loew. Ann. Ent. Soc., Am., vi, 304.
longispinosa Malloch. *Ibid.,* vi, 276. (C.W.J.)
melampyga Loew. *Ibid.,* vi, 282. (C.W.J.)
parvicornis Loew. *Ibid.,* vi, 312.
platyptera Thomson. *coronata* Loew. *Ibid.,* vi, 293.
posticata Meigen. *terminalis* Coquillett. *Ibid.,* vi, 308.
pusilla Meigen. *dimidiata* Walker. *trifolii* Burgess. *Ibid.,* vi, 278.
simplex Loew. N. Y. Agr. Expt. Sta., Bull. 189; Ann. Ent. Soc. Am., vi, 315.

Mallochiella Melander.

halteralis Coquillett. *Desmometopa.* Proc. U. S. Nat. Mus., xxii, 267.

Desmometopa Loew.

latipes Meigen. Jour. N. Y. Ent. Soc., xxi, 241.
m-nigrum Zetterstedt. *Ibid.,* xxi, 241.

Rhynchomilichia Hendel.

indecora Loew. *Milichia.* Proc. U. S. Nat. Mus., xxii, 263.

Odinia Desvoidy.

maculata Meigen. Jour. N. Y. Ent. Soc., xxi, 248. (A.B.C.)
picta Loew. Cent., i, 99; Jour. N. Y. Ent. Soc., xxi, 248. (C.W.J.)

Leucopis Meigen.

nigricornis Egger. Jour. N. Y. Ent. Soc., xxi, 232. (C.W.J.)

Ochthiphila Fallen.

elegans Panzer. Jour. N. Y. Ent. Soc., xxi, 233. (C.W.J.)
polystigma Meigen. *Ibid.,* xxi, 233.

Family HIPPOBOSCIDÆ.

Olfersia Wiedemann.

americana Leach. *Hippobosca bubonis.* Pack. Guide, 417.

Melophagus Latreille.

ovinus Linnæus. Sheep tick. Bur. Ent., Bull. 5, New ser., 138.

Order **COLEOPTERA.**

Beetles.

Family CICINDELIDÆ.

Cicindela Linnæus.

duodecimguttata Dejean. Coleop. Ind., 34. (E.D.H.)
formosa Say var. **generosa** Dejean. *Ibid.*, 33.
hirticollis Say. *Ibid.*, 35. (G.D.)
punctulata Fabricius. *Ibid.*, 35.
puritana Horn. Trans. Am. Ent. Soc., xxvii, 164.
purpurea Olivier. Coleop. Ind., 33.
purpurea var. **limbalis** Klug. *Ibid.*, 33.
repanda Dejean. *Ibid.*, 34.
sexguttata Fabricius. *Ibid.*, 32.
sexguttata var. **harrisii** Leng. Trans. Am. Ent. Soc., xxviii, 128. (E.D.H.)
tranquebarica Herbst. *vulgaris.* Coleop. Ind., 33.

Family CARABIDÆ.

Cychrus Fabricius.

elevatus Fabricius. Coleop. Ind., 43.
lecontei Dejean. *Ibid.*, 43.
viduus Dejean. *Ibid.*, 42.

Carabus Linnæus.

limbatus Say. Coleop. Ind., 45.
nemoralis Mulsant. Jour. N. Y. Ent. Soc., ii, 139.
serratus Say. Coleop. Ind., 45.
sylvosus Say. *Ibid.*, 45.
vinctus Weber. *Ibid.*, 45.

Calosoma Weber.

calidum Fabricius. Coleop. Ind., 47.
externum Say. *Ibid.*, 46.

frigidum Fabricius. *Ibid.*, 47.
scrutator Fabricius. Caterpillar hunter. *Ibid.*, 47.
sycophanta Linnæus. Bur. Ent., Bull. 101.
willcoxi LeConte. Coleop. Ind., 47.

Elaphrus Fabricius.

cicatricosus LeConte. Coleop. Ind., 49. (C.S.)
fuliginosus Say. *Ibid.*, 49. (A.B.C.)
ruscarius Say. *Ibid.*, 49. (A.B.C.)

Notiophilus Dumeril.

æneus Herbst. Coleop. Ind., 51.
novemstriatus LeConte. *Ibid.*, 52.
semistriatus Say. *Ibid.*, 51.

Nebria Latreille.

pallipes Say. Coleop. Ind., 53.

Scarites Fabricius.

subterraneus Fabricius. Coleop. Ind., 56.

Dyschirius Bonelli.

globulosus Say. Coleop. Ind., 57. (A.B.C.) (C.C.)
hæmorrhoidalis Dejean. *Ibid.*, 58. (C.C.)
hispidus LeConte. *Ibid.*, 58. (A.B.C.)
sphæricollis Say. *Ibid.*, 58.

Clivina Latreille.

americana Dejean. Coleop. Ind., 61.
bipustulata Fabricius. *Ibid.*, 61.
impressifrons LeConte. *Ibid.*, 60.
rubicunda LeConte. *Ibid.*, 60.

Schizogenius Putzeys.

ferrugineus Putzeys. Coleop. Ind., 62. (CC..)
lineolatus Say. *Ibid.*, 62. (C.C.)

Panageus Latreille.

fasciatus Say. Coleop. Ind., 66. (G.D.) (C.C.)

Bembidion Latreille.

americanum Dejean. Coleop. Ind., 72. (C.C.)
assimile Gyllenhal. *Ibid.*, 78. (A.B.C.)
contractum Say. Trans. Am. Ent. Soc., xxiv, 109.
coxendix Say. Coleop. Ind., 70. (C.C.)
fugax LeConte. *Ibid.*, 73.

guexi Chaudoir. Trans. Am. Ent. Soc., xxiv, 71. (R.Hd.)
graciliforme Hayward. Coleop. Ind., 76.
honestum Say. *Ibid.*, 72.
inæquale Say. *Ibid.*, 69. (C.C.)
nigrum Say. *Ibid.*, 73.
oberthuri Hayward. *Ibid.*, 74.
picipes Kirby. *Ibid.*, 73. (K.F.C.)
punctatostriatum Say. *Ibid.*, 70. (C.C.)
quadrimaculatum Linnæus. *Ibid.*, 78.
scopulinum Kirby. Trans. Am. Ent. Soc., xxiv, 82. (R.Hd.)
semistriatum Haldeman. Coleop. Ind., 79.
ustulatum Linnæus. *rupestre*. Trans. Am. Ent. Soc., xxiv. 80. (C.C.) (K.F.C.)
variegatum Say. Coleop. Ind., 77.
versicolor LeConte. *Ibid.*, 76. (C.C.)
sp.

Tachys Schaum.

corruscus LeConte. Coleop. Ind., 86. (A.B.C.)
flavicauda Say. *Ibid.*, 82.
incurvus Say. *Ibid.*, 82.
lævus Say. *Ibid.*, 85. (C.C.)
nanus Gyllenhal. *Ibid.*, 82.
proximus Say. Compl. Writ., 502. (K.F.C.)
scitulus LeConte. Coleop. Ind., 85. (C.C.)
xanthopus Dejean. *Ibid.*, 83.

Patrobus Dejean.

longicornis Say. Coleop. Ind., 87.
rugicollis Randall. Jour. N. Y. Ent. Soc., iii, 75.

Trechus Clairville.

chalybeus Dejean. Coleop. Ind., 87. (A.B.C.)

Myas Dejean.

coracinus Say. Coleop. Ind., 89. (G.D.)
cyanescens Dejean. *Ibid.*, 89.

Pterostichus Bonelli.

adoxus Say. Coleop. Ind., 91.
apalachius Horn. *Ibid.*, 91.
caudicalis Say. *Ibid.*, 96.
convexicollis Say. Compl. Writ., ii, 475. (C.C.)

coracinus Newman. Coleop. Ind., 93.
corusculus LeConte. Proc. Acad. Nat. Sci. Phila., 1873, 314.
corvinus Dejean. Coleop. Ind., 97.
erythropus Dejean. *Ibid.*, 99.
honestus Say. *Ibid.*, 91.
lachrymosus Newman. *Ibid.*, 93.
luctuosus Dejean. *Ibid.*, 96.
lucublandus Say. *Ibid.*, 95.
lustrans LeConte. Am. Lyc. Nat. Hist., N. Y. v, 181. (G.D.)
mancus LeConte. Jour. Acad. Nat. Sci., Phila., ii, 234. (C.C.)
mutus Say. Coleop. Ind., 98.
patruelis Dejean. *Ibid.*, 99.
pennsylvanicus LeConte. *Ibid.*, 98. (K.F.C.)
rostratus Newman. *Ibid.*, 91. (K.F.C.)
sayi Brullé. *Ibid.*, 95.
scrutator LeConte. *Ibid.*, 97.
stygicus Say. *Ibid.*, 93.
vitreus Dejean. Jour. N. Y. Ent. Soc., iii, 188.

Amara Bonelli.

angustata Say. Coleop. Ind., 105.
apricaria Paykull. Trans. Am. Ent. Soc., xxxiv, 41.
avida Say. Coleop. Ind., 103.
basillaris Say. *Ibid.*, 106. (C.C.)
chalcea Dejean. *Ibid.*, 109.
crassispina LeConte. *Ibid.*, 107.
cupreolata Putzeys. *Ibid.*, 106.
devincta Casey. Mem. Coleop., viii, 307. (T.L.C.)
exarata Dejean. Coleop. Ind., 104.
fallax LeConte. *Ibid.*, 106. (C.C.)
latior Kirby. *Ibid.*, 106.
impuncticollis Say. *Ibid.*, 106.
musculus Say. *Ibid.*, 109.
obesa Say. *Ibid.*, 108.
pennsylvanica Hayward. *Ibid.*, 103.
rubrica Haldeman. *Ibid.*, 109.

Diplochila Brullé.

laticollis LeConte. Coleop. Ind., 113.

Dicælus Bonelli.

elongatus Bonelli. Coleop. Ind., 116.
dilatatus Say. *Ibid.*, 116. (K.F.C).
politus Dejean. *Ibid.*, 116.
purpuratus Bonelli. *Ibid.*, 115.
teter Bonelli. *Ibid.*, 116.

Badister Clairville.

micans LeConte. Coleop. Ind., 119.
pulchellus LeConte. *Ibid.*, 118.

Calathus Bonelli.

gregarius Say. Coleop. Ind., 120.
impunctatus Say. *Ibid.*, 121.
opaculus LeConte. *Ibid.*, 120.

Platynus Bonelli.

æruginosus Dejean. Coleop. Ind., 133.
affinis Kirby. *Ibid.*, 130.
anchomenoides Randall. Bost. Jour. Nat. Hist., ii, 2. (C.C.)
atratus LeConte. Coleop. Ind., 130. (C.C.)
bogemanni Gyllenhal. *Ibid.*, 133.
boopis Casey. Mem. Coleop., ix, 137.
carbo LeConte. Coleop. Ind., 128.
cincticollis Say. *Ibid.*, 125.
crenistriatus LeConte. *Ibid.*, 134.
cupripennis Say. *Ibid.*, 130.
decens Say. *Ibid.*, 124. (C.C.)
decorus Say. *Ibid.*, 126.
excavatus Dejean. *Ibid.*, 131. (A.B.C.)
extensicollis Say. *Ibid.*, 126.
ferreus Haldeman. *Ibid.*, 131.
frater LeConte. Proc. Acad. Nat. Sci. Phila., vii, 35-59. (C.C.)
lutulentus LeConte. *Ibid.*, 135.
melanarius Dejean. *Ibid.*, 130.
nutans Say. *Ibid.*, 131.
octopunctatus Fabricius. *Ibid.*, 132.
picipennis Kirby. *Ibid.*, 135.
placidus Say. *Ibid.*, 132.
punctiformis Say. Compl. Writ., ii, 481.
reflexus LeConte. Coleop. Ind., 125.
rubripes Zimmerman. *Ibid.*, 134. (A.B.C.)

ruficornis LeConte. *Ibid.*, 135.
sinuatus Dejean. *Ibid.*, 124.
tenuis LeConte. *Ibid.*, 129.

Olisthopus Dejean.

micans LeConte. Ann. Lyc. Nat. Hist. N. Y., iv, 230. (A.B.C.) (H.B.K.)
parmatus Say. Coleop. Ind., 136.

Casnonia Latreille.

pennsylvanica Linnæus. Coelop. Ind., 139.

Galerita Fabricius.

bicolor Drury. Coleop. Ind. 140.
janus Fabricius. *Ibid.*, 140.

Tetragonoderus Dejean.

fasciatus Haldeman. Coleop. Ind., 142. (C.C.)

Lebia Latreille.

analis DeGeer. Coleop. Ind., 147.
atriventris Say. *Ibid.*, 144.
furcata LeConte. *Ibid.*, 148. (G.D.)
fuscata Dejean. *Ibid.*, 147.
grandis Hentz. *Ibid.*, 144.
ornata Say. *Ibid.*, 146.
pectita Horn. Trans. Am. Ent. Soc., xii, 133.
pulchella Dejean. Coleop. Ind., 145.
pumila Dejean. *Ibid.*, 146.
scapularis Dejean. *Ibid.*, 148.
viridipennis Dejean. *Ibid.*, 146.
viridis Say. *Ibid.*, 146.
vittata Fabricius. *Ibid.*, 148.

Dromius Bonelli.

piceus Dejean. Coleop. Ind., 149.

Apristus Chaudoir.

subsulcatus Dejean. Coleop. Ind., 150.

Metabletus Schmidt.

americanus Dejean. Coleop. Ind., 151.

Axinopalpus LeConte.

biplagiatus Dejean. Coleop. Ind., 151 (A.B.C.)

Pinacodera Schaum.

limbata Dejean. Coleop. Ind. 152.
platicollis Say. *Ibid.*, 153.

Cymindis Latreille.

americana Dejean. Coleop. Ind., 153.
neglecta Haldeman. Trans. Am. Ent. Soc., x, 155.
pilosa Say. Coleop. Ind., 153.

Apenes LeConte.

lucidula Dejean. Coleop. Ind., 154.
sinuata Say. *Ibid.*, 154.

Helluomorpha Laporte.

bicolor Harris. Coleop. Ind., 155.

Brachynus Weber.

alternans Dejean. Coleop. Ind., 159. (C.C.)
ballistarius LeConte. *Ibid.*, 160.
conformis Dejean. Ann. Lyc. Nat. Hist. N. Y., iv, 207.
cordicollis Dejean. Coleop. Ind., 160.
cyanipennis Say. *Ibid.*, 161. (C.C.)
fumans Fabricius. *Ibid.*, 161.
perplexus Dejean. *Ibid.*, 161.
tormentarius LeConte. *Ibid.*, 159.

Chlænius Bonelli.

æstivus Say., Coleop. Ind., 165.
impunctifrons Say. *Ibid.*, 168.
laticollis Say. *Ibid.*, 166.
leucoscelis Chevrolat. *Ibid.*, 165. (C.C.)
nemoralis Say. *Ibid.*, 169.
pennsylvanicus Say. *Ibid.*, 168.
prasinus Dejean. *Ibid.*, 165.
purpuricollis Randall. *Ibid.*, 168. (C.C.)
sericeus Fœrster. *Ibid.*, 166.
solitarius Say. *Ibid.*, 165.
tomentosus Say. *Ibid.*, 167.
tricolor Dejean. *Ibid.*, 169.

Anomoglossus Chaudoir.

emarginatus Say. Coleop. Ind., 169.
pusillus Say. *Ibid.*, 170.

Brachylobus Chaudoir.

lithophilus Say. Coleop. Ind., 170. (C.C.)

Lachnocrepis LeConte.

parallelus Say. Coleop. Ind., 171. (H.L.J.)

Oödes Bonelli.

americanus Dejean. Coleop. Ind., 172. (A.B.C.)

Geopinus LeConte.

incrassatus Dejean. Coleop. Ind., 174.

Agonoderus Dejean.

lineola Fabricius. Coleop. Ind., 177.
pallipes Fabricius. *Ibid.*, 177.
partiarius Say. *Ibid.*, 177. (A.B.C.)
pauperculus Dejean. *Ibid.*, 177. (C.C.)
testaceus Dejean. *Ibid.*, 177.

Gynandropus Dejean.

hylacis Say. Coleop. Ind. 179.

Harpalus Latreille.

autumnalis Say. Coleop. Ind., 185.
caliginosus Fabricius. *Ibid.*, 181.
compar LeConte. *Ibid.*, 182.
convivus LeConte. *Ibid.*, 181. (C.C.)
dichrous Dejean. *Ibid.*, 184.
erraticus Say. *Ibid.*, 181.
erythropus Dejean. *Ibid.*, 183.
faunus Say. *Ibid.*, 181.
herbivagus Say. *Ibid.*, 185.
laticeps LeConte. *Ibid.*, 184.
lewisii LeConte. Proc. Acad. Nat. Sci., Phila., 1865, 103.
longior Kirby. *longicollis*. Coleop. Ind., 183.
megacephalus LeConte. Ann. Lyc. Nat. Hist. N. Y., iv, 397.
nitidulus Chaudoir. Coleop. Ind., 185. (C.C.)
pennsylvanicus Dejean. *Ibid.*, 182.
pleuriticus Kirby. *Ibid.*, 184.
spadiceus Dejean. Can. Ent., ii, 61.
vagans LeConte. Coleop. Ind., 182.
viduus LeConte. *Ibid.*, 186. (C.C.)
viridiæneus Beauvois. *Ibid.*, 181.
vulpeculus Say. *Ibid.*, 184.

Selenophorus Dejean.

gagatinus Dejean. Coleop. Ind., 187.
opalinus LeConte. *Ibid.*, 187.
pedicularis Dejean. *Ibid.*, 187.

Stenolophus Dejean.

conjunctus Say. Coleop. Ind., 189.
fuliginosus Dejean. *Ibid.*, 188.
humilus Hamilton. Can. Ent., xxv, 306. (C.C.)
ochropezus Say. Coleop. Ind., 188.
plebius Dejean. *Ibid.*, 188.

Acupalpus Latreille.

carus LeConte. Coleop. Ind., 190. (A.B.C.)
hydropicus LeConte. *Ibid.*, 190. (A.B.C.)

Bradycellus Erichson.

rupestris Say. Coleop. Ind., 192.

Tachycellus Morawitz.

badiipennis Haldeman. Coleop. Ind., 193. (A.B.C.)
kirbyi Horn. *Ibid.*, 193. (A.B.C.)
nigrinus Dejean. *Ibid.*, 192. (A.B.C.)

Anisodactylis Dejean.

baltimorensis Say. Coleop. Ind., 197.
carbonarius Say. *Ibid.*, 195.
discoideus Dejean. *Ibid.*, 197.
harrisii LeConte. *Ibid.*, 196.
interpunctatus Kirby. *Ibid.*, 196.
interstitialis Say. *Ibid.*, 200.
lugubris Dejean. *Ibid.*, 199.
melanopus Haldeman. *Ibid.*, 197.
nigerrimus Dejean. *Ibid.*, 196.
nigrita Dejean. *Ibid.*, 197. (C.C.)
nitidipennis LeConte. *Ibid.*, 199.
rusticus Say. *Ibid.*, 194.
sericeus Harris. *Ibid.*, 200.
terminatus Say. *Ibid.*, 199.
verticalis LeConte. *Ibid.*, 198.

Family OMOPHRONIDÆ.

Omophron Latreille.

americanum Dejean. Coleop. Ind., 40.
labiatum Fabricius. *Ibid.*, 40. (K.F.C.)
tessellatum Say. *Ibid.*, 41.

Family HALIPLIDÆ.

Haliplus Latreille.

connexus Matheson. Jour. N. Y. Ent. Soc., xx, 164. (K.F.C.)
cribrarius LeConte. *Ibid.*, xx, 170. (K.F.C.)
fasciatus Aubé. Coleop. Ind., 202. (C.C.)
leopardus Roberts. Jour. N. Y. Ent. Soc., xxi, 98. (K.F.C.)
ruficollis DeGeer. Coleop. Ind., 203. (C.C.)
triopsis Say. *punctatus. Ibid.*, 202.

Peltodytes Regimbart.

Cnemidotus Illiger.

duodecimpunctatus Say. *12-punctatus.* Coleop. Ind., 204.
edentulus LeConte. *Ibid.*, 204. (K.F.C.)
muticus LeConte. *Ibid.*, 204. (K.F.C.)
shermani Roberts. Jour. N. Y. Ent. Soc., xxi, 116. (K.F.C.)

Family DYTISCIDÆ.

Hydrocanthus Say.

iricolor Say. Coleop. Ind., 208. (C.C.)

Laccophilus Leach.

maculosus Germar. Coleop. Ind., 209.
undatus Aubé. *Ibid.*, 210. (F.K.)

Desmopachria Babington.

convexa Aubé. Coleop. Ind., 212.

Bidessus Sharp.

affinis Say. Coleop. Ind., 213.
granarius Aubé. *Hydroporus.* Trans. Am. Ent. Soc., iv, 390.

Celina Aubé.

angustata Aubé. Coleop. Ind., 214.

Cœlambus Thomson.

dispar LeConte. *dissimilis.* Coleop. Ind., 215. (G.D.)
inæqualis Fabricius. *puntatus* Say. *Ibid.*, 215.

Deronectes Sharp.*

catascopium Say. Coleop. Ind., 216. (G.D.)

Hydroporus Clairville.*

americanus Aubé. Coleop. Ind., 220. (C.C.)
dimidiatus LeConte. *semirufus. Ibid.*, 219.

* See also appendix.

niger Say. *modestus. Ibid.*, 220.
pulcher LeConte. *Ibid.*, 218.
signatus Mannerheim. Bull. Moscow, 1853, 161.
solitarius Sharp. On Dytiscidæ, 443.
stagnalis Gemminger and Harold. Coleop. Ind., 218.
tenebrosus LeConte. *Ibid.*, 217.
undulatus Say. *Ibid.*, 219. (C.C.)
vitiosus Sharp. *blanchardi.* On Dytiscidæ, 443.

Ilybius Erichson.

biguttulus Germar. Coleop. Ind., 222.
confusus Aubé. *Ibid.*, 222. (A.B.C.)
subæneus Erichson. *Ibid.*, 222. (K.F.C.)

Coptotomus Say.

interrogatus Fabricius. Coleop. Ind., 223.

Copelatus Erichson.

glyphicus Say. Coleop. Ind., 223.

Matus Aubé.

bicarinatus Say. Coleop. Ind., 223.

Agabetes Crotch.

acuductus Harris. Coleop. Ind., 224. (C.C.)

Agabus Leach.

æruginosus Aubé. Species Gén., vi, 298. (C.C.)
disintegratus Crotch. Coleop. Ind., 227.
erythropterus Say. *Ibid.*, 226. (A.B.C.)
gagates Aubé. *Ibid.*, 226.
obtusatus Say. *Ibid.*, 226. (A.B.C.)
punctatus Melsheimer. *Ibid.*, 226.
reticulatus Aubé. *Ibid.*, 225. (K.F.C.)
semipunctatus Kirby. *Ibid.*, 227.
seriatus Say. *parallelus. Ibid.*, 226.
stagninus Say. *Ibid.*, 226.

Rhantus Eschscholtz.

binotatus Harris. Coleop. Ind., 228.
bistriatus Bergstrasser. *Ibid.*, 228. (C.C.)

Colymbetes Clairville.

sculptilis Harris. Coleop. Ind., 229.

Dytiscus Linnæus.

fasciventris Say. Coleop. Ind., 231.
harrisii Kirby. *Ibid.*, 231.
hybridus Aubé. *Ibid.*, 231. (C.C.)
verticalis Say. *Ibid.*, 231.

Hydaticus Leach.

piceus LeConte. Coleop. Ind., 232.
stagnalis Fabricius. *Ibid.*, 232.

Acilius Leach.

fraternus Harris. Coleop. Ind., 234.
mediatus Say. *Ibid.*, 233.
semisulcatus Aubé. *Ibid.*, 233.

Thermonectes Eschscholtz.

ornaticollis Aubé. Coleop. Ind., 234. (C.C.)

Graphoderes Eschscholtz.

fasciatocollis Harris. *cinereus.* Coleop. Ind., 235.
liberus Say. *Ibid.*, 235. (C.C.)

Family GYRINIDÆ.

Gyrinus Linnæus.

borealis Aubé. Coleop. Ind., 240.
limbatus Say. *Ibid.*, 239.
lugens LeConte. *Ibid.*, 240.
ventralis Kirby. *Ibid.*, 239.
sp.

Dineutes MacLeay.

assimilis Aubé. Coleop. Ind., 242.
discolor Aubé. *Ibid.*, 241.
emarginatus Say. *Ibid.*, 241. (H.L.J.)
hornii Roberts. *Ibid.*, 242.
nigrior Roberts. Trans. Am. Ent. Soc., xxii, 284.
vittatus Germar. Coleop. Ind., 241.

Family HYDROPHILIDÆ.

Hydræna Kugelan.

pennsylvanica Kiesenwetter. Coleop. Ind., 254. (C.C.)

Helophorus Fabricius.

lineatus Say. Coleop. Ind., 251.

Hydrochus Leach.

scabratus Mulsant. Coleop. Ind., 251.
subcupreus Randall. *Ibid.*, 252. (C. C.)

Berosus Leach.

infuscatus LeConte. Can. Ent., xxvii, 185. (C.C.)
peregrinus Herbst. Coleop. Ind., 258.
striatus Say. *Ibid.*, 259.

Hydrous Dahl.

ovalis Ziegler. Coleop. Ind., 255.
triangularis Say. *Ibid.*, 255.

Hydrophilus DeGeer.

obtusatus Say. Coleop. Ind., 257.

Tropisternus Solier.

glaber Herbst. Coleop. Ind., 256. (K.F.C.)
mixtus LeConte. *Hydrophilus. Ibid.*, 256.
nimbatus Say. *Ibid.*, 256.

Hydrobius Leach.*

fuscipes Linnæus. Coleop. Ind., 262.
globosus Say. *Ibid.*, 263.

Paracymus Thomson.

Creniphilus Motschulsky.

despectus LeConte. Coleop. Ind., 264.
digestus LeConte. Trans. Am. Ent. Soc., xvii. 274.
infuscatus Motschulsky. Coleop. Ind., 264.
subcupreus Say. *Ibid.*, 264.

Enochrus Thomson.

Philhydrus Solier.

cinctus Say. Coleop. Ind., 261.
hamiltoni Horn. *Ibid.*, 260.
ochraceus Melsheimer. *Ibid.*, 260.
perplexus LeConte. *Ibid.*, 261.
reflexipennis Zimmerman. *angustulus* Casey. Trans. Am. Ent. Soc., xvii., 250.

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* See also appendix.

Laccobius Erichson.

agilis Randall. Coleop. Ind., 259.

Cymbiodyta Bedel.

fimbriata Melsheimer. Trans. Am. Ent. Soc., xvii., 258: Coleop. Ind., 262.
lacustris LeConte. Coleop. Ind., 262.

Chætarthria Stephens.

atra LeConte. Proc. Acad. Nat. Sci. Phila., vi, 24.

Cercyon Leach.

analis Paykull. Coleop. Ind., 269.
depressus Stephens. Trans. Am. Ent., Soc., vii, 293. (C.C.)
hæmorrhoidalis Fabricius. Coleop. Ind., 267.
indistinctus Horn. *Ibid.*, 267.
lateralis Marsham. Trans. Am. Ent. Soc., xvii, 297.
littoralis Gyllenhal. *Ibid.*, 291.
navicularis Zimmerman. Coleop. Ind., 269. (C.C.)
ocellatus Say. *Ibid.*, 269. (C.C.)
prætextatus Say. *Ibid.*, 268.
pygmæus Illiger. *Ibid.*, 268.
unpunctatus Linnæus. *Ibid.*, 268.

Sphæridium Fabricius.

bipustulatus Fabricius. Jour. N. Y. Ent. Soc., xx, 69.
scarabæoides Linnæus. Coleop. Ind., 265.

Cryptopleurum Mulsant.

minutum Fabricius. Coleop. Ind., 270.

Family SILPHIDÆ.

Necrophorus Fabricius.

americanus Olivier. Coleop. Ind., 274.
marginatus Fabricius. *Ibid.*, 275.
orbicollis Say. *Ibid.*, 275.
pustulatus Herschel. *Ibid.*, 275.
sayi Laporte. *Ibid.*, 274.
tomentosus Weber. *Ibid.*, 274.
vespilloides Herbst. Trans. Am. Ent. Soc., viii, 234.

Silpha Linnæus.

americana Linnæus. Coleop. Ind., 277.
inæqualis Fabricius. *Ibid.*, 276.
noveboracensis Fœrster. *Ibid.*, 277.
surinamensis Herbst. *Ibid.*, 276.

Choleva Latreille.

clavicornis LeConte. Coleop. Ind., 280.
terminans LeConte. *Ibid.*, 280. (C.C.)

Prionochæta Horn.

opaca Say. Coleop. Ind., 280.

Ptomophagus Illiger.

consobrinus LeConte. Coleop. Ind., 281. (C.C.)
parasitus LeConte. *Ibid.*, 282.
pusio LeConte. *Ibid.*, 282. (C.C.)

Colon Herbst.

bidentatum Sahlberg. Trans. Am. Ent. Soc., viii, 269. (C.C.)

Anisotoma Illiger.

alternata Melsheimer. Trans. Am. Ent. Soc., viii, 285.

Leiodes Latreille.

discolor Melsheimer. Coleop. Ind., 287. (C.C.)
globosa LeConte. *Ibid.*, 287. (C.C.)

Agathidium Illiger.

exiguum Melsheimer. Coleop. Ind., 290.
oniscoides Beauvois. *Ibid.*, 290.

Family SCYDMÆNIDÆ.

Euconnus Thomson.

bicolor LeConte. Ann. N. Y. Acad. Sci., ix, 370.
salinator LeConte. Coleop. Ind., 295. (C.C.)

Connophron Casey.

fossiger LeConte. Coleop. Ind., 298. (C.C.)
hirtellus LeConte. Ann. N. Y. Acad. Sci., ix, 429.
lacunosum Casey. *Ibid.*, ix, 459. (C.C.)
oreophilum Casey. *Ibid.*, ix, 405.
sp.

Scydmænus Latreille.

perforatus Schaum. Coleop. Ind., 301. (C.C.)

Family CORYLOPHIDÆ.

Sericoderus Stephens.

flavidus LeConte. Coleop. Ind., 504.

Molamba Casey.

fasciata Say. *Sacium.* Coleop. Ind., 505. (C.C.)
lunata LeConte. *Sacium. Ibid.,* 505. (C.C.)

Rhypobius LeConte.

marinus LeConte. Jour. N. Y. Ent. Soc., viii, 65. (C.W.L.)

Family STAPHYLINIDÆ.

Thoracophorus Motschulsky.

Glyptoma Erichson.

costale Erichson. Coleop. Ind., 484.

Triga Fauvel.

picipennis LeConte. Coleop. Ind., 484.

Olisthærus Heer.

nitidus LeConte. Trans. Am. Ent. Soc., v, 50.

Anthobium Leach.

convexum Fauvel. Coleop. Ind., 481.

Olophrum Erichson.

obtectum Erichson. Coleop. Ind., 479.

Oxytelus Gravenhorst.

insignitus Gravenhorst. Coleop. Ind., 468.
sculptus Gravenhorst. *Ibid.,* 468.

Homalium Gravenhorst.

rivulare Paykull. Coleop. Neerland., i, 359.

Platystethus Mannerheim.

americanus Erichson. Coleop. Ind., 467.

Bledius Leach.

pallipennis Say. *mandibularis.* Coleop. Ind., 464.

Stenus Latreille.

colonus Erichson. Coleop. Ind., 408.
ingratus Casey. *Ibid.,* 406.
morio Gravenhorst. *subgriseus* Casey. *Ibid.,* 411.
stygicus Say. Coleop. Ind., 409.

Areus Casey.

annularis Erichson. *Stenus.* Coleop. Ind., 413.
arculus Erichson. *Stenus. Ibid.,* 414.
cribratum LeConte. Smith Misc. Coll., 1865, 46.
flavicornis Erichson. *Stenus.* Coleop. Ind., 413.

Hesperobium Casey.

pallipes Gravenhorst. *flavicorne.* Can. Ent., xvii, 180.

Lathrotaxis Casey.

longiusculum Gravenhorst. *Lathrobium.* Coleop. Ind., 427.

Gasterolobium Casey.

bicolor Gravenhorst. *Cryptobium.* Coleop. Ind., 418.

Pæderus Gravenhorst.

littorarius Gravenhorst. Coleop. Ind., 437.

Lathrobium Gravenhorst.

simile LeConte. Coleop. Ind., 424.
simplex LeConte. *Ibid.,* 423.

Trachysectus Casey.

confluentus Say. *Lithocharis.* Coleop. Ind., 431.

Astenus Stephens.

Sunius Erichson.

discopunctatus Say. *longiusculus.* Coleop. Ind., 439.

Gyrohypnus Mannerheim.

Xantholinus Serville.

emmesus Gravenhorst. Coleop. Ind., 396.
hamatus Say. *obscurus. Ibid.,* 396.
obsidianus Melsheimer. *Ibid.,* 395.
pusillus Sachse. *Ibid.,* 398.
sanguinipennis LeConte. Trans. Am. Ent. Soc., viii, 174.

Nudobius Thomson.

cephalus Say. *Xantholinus.* Coleop. Ind., 395.

Neobisnius Ganglbauer.

pæderoides LeConte. Coleop. Ind., 393.

Philonthus Curtis.

blandus Gravenhorst. Coleop. Ind., 387.
brunneus Gravenhorst. *Ibid.,* 386.
cyanipennis Fabricius. *Ibid.,* 387.

debilis Gravenhorst. *Ibid.*, 383.
fusiformis Melsheimer. *Ibid.*, 385.
lomatus Erichson. *Ibid.*, 386.
longicornis Stephens. *Ibid.*, 383.
microphthalmus Horn. *Ibid.*, 388.
politus Linnæus. *æneus* Rossi. Trans. Am. Ent. Soc., xi, 181.
schwarzi Horn. *Ibid.*, 385.
sp.

Ocypus Kirby.

ater Gravenhorst. Coleop. Ind., 379.

Staphylinus Linnæus.

badipes LeConte. Coleop. Ind., 376.
cinnamopterus Gravenhorst. *Ibid.*, 377.
fossator Gravenhorst. *Ibid.*, 377.
maculosus Gravenhorst. *Ibid.*, 377.
mysticus Erichson. *Ibid.*, 377.
prælongus Mannerheim. Trans. Am. Ent. Soc., vii, 197. (A.B.C.)
violaceus Gravenhorst. Coleop. Ind., 378.
vulpinus Nordmann. *Ibid.*, 376.

Ortholestes Ganglbauer.

Listotrophus Perty.

capitatus Bland. Proc. Phila. Ent. Soc., iii, 65. (K.F.C.)
cingulatus Gravenhorst. Coleop. Ind., 374.

Creophilus Mannerheim.

villosus Gravenhorst. Coleop. Ind., 374.

Acylophorus Nordmann.

pronus Erichson. Coleop. Ind., 368.

Quedius Stephens.

vernix LeConte. Coleop. Ind., 373.

Oxyporus Fabricius.

lateralis Gravenhorst. Coleop. Ind., 461.
major Gravenhorst. *Ibid.*, 459. (A.B.C.) (H.B.K.)
vittatus Gravenhorst. *Ibid.*, 460.

Habrocerus Erichson.

schwarzii Horn. Coleop. Ind., 457.

Tachinus Gravenhorst.

fimbriatus Gravenhorst. Coleop. Ind., 446.
fumipennis Say. Trans. Am. Ent. Soc., vi, 100.
limbatus Melsheimer. Coleop. Ind., 446.

Tachyporus Gravenhorst.

chrysomelinus Linnæus. Coleop. Ind., 448.
jocosus Say. *Ibid.*, 448.
maculipennis LeConte. *Ibid.*, 447.

Erchomus Motschulsky.

ventriculus Say. Coleop. Ind., 449.

Conosoma Kraatz.

basale Erichson. Coleop. Ind., 451.
crassum Gravenhorst. *Ibid.*, 450.
pubescens Paykull. *Ibid.*, 451.

Boletobius Stephens.

cincticollis Say. Coleop. Ind., 453.
cinctus Gravenhorst. *Ibid.*, 454.
intrusus Horn. *Ibid.*, 454.
niger Gravenhorst. *Ibid.* 452.
trinotatus Erichson. *Ibid.*, 454.

Bryoporus Kraatz.

rufescens LeConte. Coleop. Ind., 457.

Hoplandria Kraatz.

brittoni Casey. Mem. Coleop., ii, 161.

Meronea Sharp.

venustula Erichson. Coleop. Ind., 349.

Atheta Thomson.

irvingi Casey. Mem. Coleop., i, 5.
vierecki Casey. *Ibid.*, ii, 103. (H.L.V.)

Datomicra Casey.

mina Casey. Mem. Coleop., ii, 145. (H.L.V.)

Sableta Casey.

brittoni Casey. Mem. Coleop., ii, 145. (W.E.B.)

Strigota Casey.

recta Casey. Mem. Coleop., ii, 165. (H.L.V.)

Falagria Mannerheim.

dissecta Erichson. Coleop. Ind., 347.

Gyrophæna Mannerheim.

dissimilis Erichson. Coleop. Ind., 341.
lobata Casey. *Ibid.*, 341.

Xenodusa Wasmann.

cava LeConte. *Lomechusa.* Coleop. Ind., 359.
cava var. major Wasmann. Deutsche Ent. Zeit., 1899, 410. (C.W.L.)

Aleochara Gravenhorst.

bimaculata Gravenhorst. Coleop. Ind., 365.
lata Gravenhorst. *Ibid.*, 364.
marion Gravenhorst. Ent. News., xix, 64.

Homœusa Kraatz.

crinitula Casey. Jour. N. Y. Ent. Soc., xviii, 54.

Haploglossa Kraatz.

sp.

Family PSELAPHIDÆ.

Batrisodes Reitter.

fossicauda Casey. Ann. N. Y. Acad. Sci., ix, 575. (C.C.)
globosus LeConte. Coleop. Ind., 326.
harringtoni Casey. Ann. N. Y. Acad. Sci., ix, 578. (C.C.)
nigricans LeConte. Coleop. Ind., 328. (C.C.)

Nisaxis Casey.

tomentosa Aubé. Coleop. Ind., 317.

Brachygluta Thomson.

Bryaxis Aubé

abdominalis Aubé. Coleop. Ind., 318. (A.B.C.)
terbrata Casey. *perforata. Ibid.*, 318. (C.C.)

Reichenbachia Leach.

puncticollis LeConte. Coleop. Ind., 322. (C.C.)
rubicunda Aubé. *Ibid.*, 321.

Decarthron Brendel.

abnorme LeConte. Coleop. Ind., 317. (C.C.)
longulum LeConte. *Ibid.*, 316. (C.C.)
stigmosum Brendel. Proc. Phila. Ent. Soc., vi, 35.

Pselaphus Herbst.

bellax Casey. Coleop. Ind., 314. (A.B.C.)

Tyrus Aubé.

humeralis Aubé. Coleop. Ind., 313.

Pilopius Casey.

Ctenistes Reichenbach.

lacustris Casey. *piceus* LeConte. Coleop. Ind., 311. (C.C.)

Ceophyllus LeConte.

monilis LeConte. Coleop. Ind., 309. (C.W.L.)

Family CLAVIGERIDÆ.

Adranes LeConte.

lecontei Brendel. Coleop. Ind., 307. (C.C.)

Family PTILIDÆ.

Trichopteryx Kirby.

haldemani LeConte. Coleop. Ind., 489. (C.W.L.)

Family SCAPHIDIIDÆ.

Scaphidium Olivier.

quadriguttatum Say. Coleop. Ind., 492. (C.C.)
quadriguttatum var. **piceum** Melsheimer. *Ibid.*, 492.

Bæocera Erichson.

sp.

Scaphisoma Leach.

convexa Say. Coleop. Ind., 496. (C.C.)
suturalis LeConte. *Ibid.*, 496. (C.C.)

Family HISTERIDÆ.

Hololepta Paykull.

fossularis Say. Coleop. Ind., 601.

Hister Linnæus.

abbreviatus Fabricius. Coleop. Ind., 607.
americanus Paykull. *Ibid.*, 609.
arcuatus Say. Compl. Writ., ii, 262. (C.C.)
bimaculatus Linnæus. Coleop. Ind., 609.
biplagiatus LeConte. *Ibid.*, 603.
cognatus LeConte. *Ibid.*, 604.
depurator Say. *Ibid.*, 607.
egregius Casey. Mem. Coleop., vii, 288.
fœdatus LeConte. Coleop. Ind., 606.
furtivus LeConte. *Ibid.*, 608.
immunis Erichson. *Ibid.*, 605.
interruptus Beauvois. *Ibid.*, 605.
lecontei Latreille. *Ibid.*, 612.
merdarius Hoffman. *Ibid.*, 612.
parallelus Say. *Ibid.*, 612.
perplexus LeConte. *Ibid.*, 609. (C.C.)
sedecimstriatus Say. *Ibid.*, 609.
stygicus LeConte. *Ibid.*, 606.

Phelister Marseul.

subrotundus Say. *Hister.* Coleop. Ind., 611.

Gnathoncus Duval.

communis Marseul. *rotundatus.* Coleop. Ind., 619.

Psiloscelis Marseul.

harrisii LeConte. *planipes.* Mem. Coleop., vii, 204. (C.C.)
perpunctatus LeConte. Trans. Am. Ent. Soc., viii, 190.

Platysoma Leach.

carolinus Paykull. Coleop. Ind., 612.
coartatus LeConte. *Ibid.*, 613. (A.B.C.) (H.B.K.)

Hetærius Erichson.

blanchardi LeConte. Proc. Am. Phil. Soc., xvii, 609. (C.C.)
brunneipennis Randall. Coleop. Ind., 615.

Dendrophilus Leach.

punctulatus Say. Coleop. Ind., 615.

Paromalus Erichson.

bistriatus Erichson. Coleop. Ind., 616.

Saprinus Erichson.

assimilis Paykull. Coleop. Ind., 620.
conformis LeConte. *Ibid.*, 620.
dimidiatipennis LeConte. *Ibid.*, 608.
fraternus Say. *Ibid.*, 623. (K.F.C.)
neglectus Marseul. Trans. Am. Phil. Soc., xiii, 335. (C.C.)
oregonensis LeConte var. **distinguendis** Marseul. Mon. Hister., 441.
patruelis LeConte. Coleop. Ind., 624.
pennsylvanicus Paykull. Coleop. Ind., 620.
posthumus Marseul. *Ibid.*, 619.

Plegaderus Erichson.

transversus Say. Coleop. Ind., 625. (C.C.)

Acritus LeConte.

politus LeConte. Coleop. Ind., 627. (C.C.)

Family LYCIDÆ.

Lycostomus Motschulsky.

lateralis Melsheimer. Coleop. Ind., 810.

Calopteron Guérin-Ménéville.

reticulatum Fabricius. Coleop. Ind., 811.
terminale Say. *Ibid.*, 810.

Cæniella Cockerell.

Cænia Newman.

dimidiata Fabricius. Coleop. Ind., 811.

Celetes Newman.

basalis LeConte. Coleop. Ind., 811.

Lopheros LeConte.

fraternus Randall. Coleop. Ind., 811.

Eros Newman.

aurora Herbst. Coleop. Ind., 812.
trilineatus Melsheimer. *Ibid.*, 813.

Plateros Bourgeois.

canaliculatus Say. Coleop, Ind., 815.
modestus Say. *Ibid.*, 814.

Family LAMPYRIDÆ.

Lucidota Laporte.

atra Fabricius. Coleop. Ind., 817.
corrusca Linnæus. *Ellychnia. Ibid.*, 818.
decipiens Harris. *Pyropyga. Ibid.*, 819.
fenestralis Melsheimer. *Pyropyga. Ibid.*, 819.
nigricans Say. *Ibid.*, 819.

Lecontea Olivier.

augulata Say. *Pyractonema.* Coleop. Ind., 820.
lucifera Melsheimer. *Pyractonema.* Coleop. Ind., 821.

Photinus Laporte.*

scintillans Say. Coleop. Ind., 823. (H.L.J.)

Photuris LeConte.

pennsylvanica DeGeer. Common firefly. Coleop. Ind., 823.

Family TELEPHORIDÆ.

Omethes LeConte.

marginatus LeConte. Coleop. Ind., 825. (C.C.)

Chauliognathus Hentz.

pennsylvanicus DeGeer. Soldier beetle. Coleop. Ind., 827.

Podabrus Fischer.

basillaris Say. Coleop. Ind., 830.
frater LeConte. *Ibid.*, 830.
modestus Say. *Ibid.*, 830.
modestus var. flavicollis LeConte. *Ibid.*, 831.
protensus LeConte. *Ibid.*, 831. (C.C.)
rugulosus LeConte. *Ibid.*, 830.
tricostatus Say. *Ibid.*, 829.

Telephorus Schæffer.

bilineatus Say. Coleop. Ind., 835.
carolinus Fabricius. *Ibid.*, 833.
collaris LeConte. Proc. Acad. Nat. Sci., Phila., v. 540.
dentiger LeConte. Coleop. Ind., 833.
excavatus LeConte. *Ibid.*, 833.
fraxini Say. Compl. Writ., ii, 118.

* See also appendix.

lineola Fabricius. Coleop. Ind., 834.
nigritulus? LeConte. Trans. Am. Ent. Soc., ix, 52.
rectus Walsh. Coleop. Ind., 834.
rotundicollis Say. *Ibid.*, 835.
scitulus Say. *Ibid.*, 834.
tuberculatus LeConte. *Ibid.*, 835.

Polemius LeConte.

laticornis Say. Coleop. Ind., 836.

Ditemnus LeConte.

bidentatus Say. Coleop. Ind., 837.

Trypherus LeConte.

latipennis Germar. Coleop. Ind., 838.

Malthodes Kiesenwetter.

concavus LeConte. Coleop. Ind., 839.

Family PHENGODIDÆ.

Phengodes Illiger.

sp.

Family MELYRIDÆ (MALACHIDÆ).

Collops Erichson.

nigriceps Say. *eximius.* Trans. Am. Ent. Soc., iii, 80.
quadrimaculatus Fabricius. Coleop. Ind., 841.
tricolor Say. *Ibid.*, 841.
vittatus Say. Trans. Am. Ent. Soc., iii, 81.

Malachius Fabricius.

æneus Linnæus. Trans. Am. Ent. Soc., iv, 113.

Anthocomus Erichson.

erichsoni LeConte. Coleop. Ind., 842. (C.C.)

Pseudebæus Horn.

oblitus LeConte. Coleop. Ind., 842.

Attalus Erichson.

morulus LeConte. Coleop. Ind., 844.
otiosus Say. *Ibid.*, 845. (C.C.)
pallifrons Motschulsky. *Ibid.*, 844. (C.C.)
scincetus Say. *Ibid.*, 846.
terminalis Erichson. *Ibid.*, 844.

Family CLERIDÆ.

Monophylla Spinola.

terminatus Say. *Elasmocerus.* Coleop. Ind., 849. (E.P.F.)

Cymatodera Gray.

bicolor Say. Coleop. Ind., 850. (D.J.C.)
inornata Say. *Ibid.*, 850.

Thanasimus Latreille.

dubius Say. Coleop. Ind., 854.

Enoclerus Gahan.

analis LeConte. Coleop. Ind., 853. (F.K.)
nigrifrons Say. *Ibid.*, 853.
quadriguttatus Olivier. *nigripes. Ibid.*, 853.
rosmarus Say. *Ibid.*, 854.

Phlœopterus Wolcott.

thoracicus Olivier. *Enoclerus.* Coleop. Ind., 854.

Trichodes Herbst.

nuttalli Kirby. Coleop. Ind., 852.

Hydnocera Newman.

humeralis Say. Coletop. Ind., 856.
humeralis var. difficilis LeConte. *Ibid.*, 856.
pallipennis Say. *Ibid.*, 856.
tabida LeConte. *Ibid.*, 857. (A.B.C.)
unifasciata Say. *Ibid.*, 855.
verticalis Say. *Ibid.*, 857.

Zenodosus Wolcott.

sanguineus Say. Coleop. Ind., 855.

Phyllobænus Spinola.

dislocatus Say. Coleop. Ind., 858. (A.B.C.)

Neichnea Wolcott and Chapin.

laticornis Say. *Ichnea. Ellipotoma.* Coleop. Ind., 859.

Chariessa Perty.

pilosa Fœrster. Coleop. Ind., 859.

Corinthiscus Fairmaire.

Pelonium Spinola.

leucophæum Klug. *Cregya vestusta* Spinola. Coleop. Ind., 860.

Necrobia Latreille.

ruficollis Fabricius. Coleop. Ind., 861.
rufipes DeGeer. *Ibid.*, 861.
violacea Linnæus. *Ibid.*, 862.

Family LYMEXYLIDÆ.

Hylecœtus Latreille.

lugubris Say. Coleop. Ind., 894. (A.B.C.)

Melittomma Murray.

sericeum Harris. *Lymexylon.* Chestnut timber beetle. Coleop. Ind., 895.

Family CEPHALOIDÆ.

Cephaloön Newman.

lepturides Newman. Ann. N. Y. Acad. Sci., ix, 650.

Family ŒDEMERIDÆ.

Nacerdes Schmidt.

melanura Linnæus. Coleop. Ind., 1306.

Asclera Schmidt.

ruficollis Say. Coleop. Ind., 1307.

Family MORDELLIDÆ.

Anaspis Geoffroy.

flavipennis Haldeman. Coleop. Ind., 1310.
rufa Say. *Ibid.*, 1310.

Tomoxia Costa.

bidentata Say. Coleop. Ind., 1311.

Mordella Linnæus.

marginata Melsheimer. Coleop. Ind., 1313.
melæna Germar. *Ibid.*, 1312.
oculata Say. *Ibid.*, 1314.
scutellaris Fabricius. *Ibid.*, 1313.
triloba Say. *Ibid.*, 1314. (F.K.)

Glipodes LeConte.

helva LeConte. Proc. Acad. Nat. Sci., Phila., xiv, 48.

Mordellistena Costa.

aspersa Melsheimer. Coleop. Ind., 1319.
comata LeConte. *Ibid.*, 1319.
comata var. **cervicalis** LeConte. *Ibid.*, 1319.
grammica LeConte var. **varians** LeConte. *Ibid.*, 1321. (F.K.)
pubescens Fabricius. *Ibid.*, 1335.

Family RHIPIPHORIDÆ.

Rhipiphorus Bosc d'Antic.

fasciatus Say. *Myodites. walshii.* Coleop. Ind., 1367.

Macrosiagon. Hentz.

flavipennis LeConte. *Rhipiphorus.* Coleop. Ind., 1366.
limbatum Fabricius. *Ibid.,* 1367.

Family MELOIDÆ (or CANTHARIDÆ.)

Epicauta Redtenbacher.

cinerea Fœrster. Coleop. Ind, 1362.
cinerea var. **marginata** Fabricius. *Ibid.,* 1362.
pennsylvanica DeGeer. *Ibid.,* 1362.
vittata Fabricius. *Ibid.,* 1361.

Macrobasis LeConte.

unicolor Kirby. Coleop. Ind., 1359.

Pomphopæa LeConte.

ænea Say. Coleop. Ind., 1364.
sayi LeConte. *Ibid.,* 1364.
unguicularis LeConte. *Ibid.,* 1364.

Meloe Linnæus.

angusticollis Say. Coleop. Ind., 1353.

Zonitis Fabricius.

bilineata Say. Coleop. Ind., 1356.

Tricrania LeConte.

sanguinipennis Say. Coleop. Ind., 1354.

Family PYTHIDÆ.

Pytho Latreille.

niger Kirby. Trans. Am. Ent. Soc., xv, 46.
planus Herbst. *americanus* Kirby. Ins. Aff. Park and Woodl. Trees, 368: Trans. Am. Ent. Soc., xv, 46.

Rhinosimus Latreille.

viridiæneus Randall. Coleop. Ind., 1304.

Family PYROCHROIDÆ.

Pyrochroa Geoffroy.

femoralis LeConte. Coleop. Ind., 1348.
flabellata Fabricius. *Ibid.*, 1348.

Schizotus Newman.

cervicalis Newman. Coleop. Ind., 1349.

Dendroides Latreille.

bicolor Newman. *canadensis.* Coleop. Ind., 1349. (G.D.)
concolor Newman. *Ibid.*, 1349.

Family PEDILIDÆ.

Pedilus Fischer.

Corphyra Say.

collaris Say. Coleop. Ind., 1331.
elegans Hentz. *Ibid.*, 1330.
lugubris Say. *Ibid.*, 1331.

Macratria Newman.

confusa LeConte. Coleop. Ind., 1332.

Family ANTHICIDÆ.

Notoxus Geoffroy.

anchora Hentz. Coleop. Ind., 1335.
bifasciatus LeConte. *Ibid.*, 1335.
mondon Fabricius. *Ibid.*, 1336.

Malporus Casey.

formicarius Laferté. Coleop. Ind., 1338. (A.B.C.) (H.B.K.)

Thicanus Casey.

rejectus LeConte. Ann. N. Y. Acad. Sci., viii, 671. (A.B.C.) (H.B.K.)

Lappus Casey.

sturni Laferté. *elegans.* Ann. N. Y. Acad. Sci., viii, 657. (G.D.)

Hemantus Casey.

floralis Linnæus. Ann. N. Y. Acad. Sci., viii, 683.

Anthicus Paykull.

cervinus Laferté. Coleop. Ind., 1341.

Sapintus Casey.

pubescens LeConte. Ann. N. Y. Acad. Sci., viii, 733.

Family ELATERIDÆ.

Tharops Castner.

ruficornis Say. Coleop. Ind., 703.

Adelocera Latreille.

discoidea Weber. Coleop. Ind., 715.
marmorata Fabricius. *Ibid.*, 714.
obtecta Say. *Ibid.*, 715.

Alaus Eschscholtz.

oculatus Linnæus. Eyed elater or click-beetle. Coleop. Ind., 717.

Monocrepidius Eschscholtz.

auritus Herbst. Coleop. Ind., 728.
bella Say. *Ibid.*, 728.
vespertinus Fabricius. *Ibid.*, 728.

Campylus Fischer.

denticornis Kirby. Coleop. Ind., 759.

Limonius Eschscholtz.

basillaris Say. Coleop. Ind., 758. (C.C.)
confusus LeConte. *Ibid.*, 758.
ectypus Say. *agonus*. *Ibid.*, 756.
griseus Beauvois. *Ibid.*, 757.
nimbatus Say. Ann. Lyc. Nat. Hist. N. Y., i, 255. (C.C.)
plebejus Say. Coleop. Ind., 758.
quercinus Say. *Ibid.*, 758.
stigma Herbst. Kafer, x, 286. (A.B.C.)

Leptoschema Horn.

discalceatum Say. Coleop. Ind., 761.

Athous Eschscholtz.

acanthus Say. Coleop. Ind., 760. (C.C.)
brightwelli Kirby. *Ibid.*, 759.
cucullatus Say. *Ibid.*, 870.

Ludius Eschscholtz.

Corymbites Latreille.

æripennis Kirby. Trans. Am. Phil. Soc., x, 439.
æthiops Herbst. Coleop. Ind., 766.
cylindriformis Herbst. *Ibid.*, 765.
hieroglyphicus Say. *Ibid.*, 766.
inflatus Say. *Ibid.*, 767.

nigricornis Panzer. *metallicus.* Faun. Germ., lxi, 5.
pyrrhos Herbst. Coleop. Ind., 767.
splendens Ziegler. *Ibid.*, 768.
sulcicollis Say. *Ibid.*, 768. (C.C.)
tarsalis Melsheimer. *Ibid.*, 765.
tessellatus Linnæus. Syst. Nat., (Ed. 10) 406.
triundulatus Randall. Trans. Am. Phil. Soc., x, 477.

Hemicrepidius Germar.
Asaphes Kirby.

bilobatus Say. Coleop. Ind., 770.
decoloratus Say. *Ibid.*, 770.
memnonius Herbst. *Ibid.*, 770.

Cryptohypnus Eschscholtz

abbreviatus Say. Coleop. Ind., 722.

Melanactes LeConte.

morio Fabricius. Coleop. Ind., 772. (G.D.)
piceus DeGeer. *Ibid.*, 771.

Œstodes LeConte.

tenuicollis Randall. Trans. Am. Phil. Soc., x, 424.

Parallelosthetus Schwarz.

attenuatus Say. *Ludius.* Coleop. Ind., 736.

Trichopherus Mulsant and Godart.

abruptus Say. *Ludius.* Coleop. Ind., 737.

Agriotes Eschscholtz.

oblongicollis Melsheimer. Coleop. Ind., 741.

Oxygonus LeConte.

obesus Say. Coleop. Ind., 769.

Dolopius Eschscholtz.

lateralis Eschscholtz. *Sericosomus.* Coleop. Ind., 742.

Sericus Eschscholtz.

silaceus Say. *Sericosomus.* Coleop. Ind., 763. (C.C.)
viridanus Say. *Sericosomus.* Compl. writ., ii, 603.

Glyphonyx Candeze.

recticollis Say. Coleop. Ind., 743.
testaceus Melsheimer. *Ibid.*, 743.

Æolus Eschscholtz.

dorsalis Say. *Drasterius elegans.* Coleop. Ind., 735.

Elater Linnæus.

areolatus Say. *obliquus*. Coleop. Ind., 734.
collaris Say. *Ibid.*, 734.
linteus Say. *Ibid.*, 732.
manipularis Candeze. *Ibid.*, 732.
militaris Harris. Trans. Am. Ent. Soc., xii, 10. (A.B.C.)
mixtus Herbst. Trans. Am. Phil. Soc., x, 469.
mixtus var. fusculus LeConte. *Ibid.*, 468.
nigricans Germar. *Ibid.*, 468.
nigricollis Herbst. Coleop. Ind., 732.
nigrinus Paykull. Trans. Am. Ent. Soc., xii, 10. (F.K.)
pullus Germar. *Ibid.*, xii, 10.
rubricollis Herbst. Coleop. Ind., 733.
rubricus Say. *Ibid.*, 733.
sanguinipennis Say. *Ibid.*, 734.
semicinctus Randall. Trans. Am. Phil. Soc., x., 465. (A.B.C.)
vitiosus LeConte. *Ibid.*, 465.

Megapenthes Kiesenwetter.

limbalis Herbst. Coleop. Ind., 736.

Melanotus Eschscholtz.*

americanus Herbst. Coleop. Ind., 747.
communis Gyllenhal. *Ibid.*, 750.
cribulosus LeConte. Trans. Am. Phil. Soc., ser. 2, x, 479.
decumanus Erichson. Coleop. Ind., 749.
dubius LeConte. Trans. Am. Phil. Soc., Ser. 2, x, 479.
exuberans LeConte. *Ibid.*, Ser. 2, x, 479.
fissilis Say. Coleop. Ind., 750.
insipiens Say. Compl. Writ., ii, 622.
parumpunctatus Melsheimer. Coleop. Ind., 754
pertinax Say. *Ibid.*, 755.
sagittarius LeConte. *Ibid.*, 751.
tenax Say. *Ibid.*, 755.
trapezoideus LeConte. *Ibid.*, 752.
verberans LeConte. *Ibid.*, 753.

Cardiophorus Eschscholtz.

cardisce Say. Coleop. Ind., 720.
convexus Say. *Ibid.*, 721.

* See also appendix.

gagates Erichson. *Ibid.*, 721.
robustus LeConte. *Ibid.*, 721.
sp.

Horistonotus Candeze.

curiatus Say. Coleop. Ind., 721.
simplex Say. Trans. Am. Ent. Soc., xii, 38.

Family MELASIDÆ.

(EUCNEMIDÆ.)

Melasis Olivier.

pecticornis Melsheimer. Coleop. Ind., 703.

Isorhipis Lacordaire.

Tharops.

ruficornis Say. Coleop. Ind., 703.

Deltometopus Bonvouloir.

amœnicornis Say. Coleop. Ind., 704.

Entomophthalmus Bonvouloir.

rufiolus LeConte. Coleop. Ind., 709.

Family THROSCIDÆ or TRIXAGIDÆ.

Throscus Latreille.

carinicollis Schæffer. Trans. Am. Ent. Soc., xliii, 22.
chevrolati Bonvouloir. Coleop. Ind., 776.

Family BUPRESTIDÆ.

Acmæodera Eschscholtz.

tubulus Fabricius. *culta.* Coleop. Ind., 794.

Chalcophora Solier.

fortis LeConte. Trans. Am. Phil. Soc., ii, 191.
liberta Germar. Coleop. Ind., 780.
virginiensis Drury. *Ibid.*, 780.

Dicerca Eschscholtz.

americana Herbst. Kafer, ix, 107.
caudata LeConte. Coleop. Ind., 781.
divaricata Say. *Ibid.*, 781.
lurida Fabricius. *Ibid.*, 782.
obscura Fabricius. *Ibid.*, 782.
prolongata LeConte. Trans. Am. Phil. Soc., xii, 194.
pugionata Germar. Coleop. Ind., 781.

punctulata Schonherr. Syn. Ins., 3, 123.
tenebrosa Kirby. Coleop. Can., 348.

Melanophila Eschscholtz.

acuminata DeGeer. *appendiculata. longipes.* Coleop. Ind., 786.
fulvoguttata Harris. Entomological Correspondence, 358.

Anthaxia Eschscholtz.

quercata Fabricius. *cyanella.* Coleop. Ind., 787. (F.K.)
viridifrons Laporte. *Ibid.*, 787.

Chrysobothris Eschscholtz.

azurea LeConte. Coleop. Ind., 791.
dentipes Germar. *Ibid.*, 788. (K.F.C.)
femorata Fabricius. Flat-headed apple borer. *Ibid.*, 789.
femorata var. **quadriimpressa.** Laporte and Gory. *iv-impressa.* Mon. Bupr., 2, 48.
floricola Gory. Coleop. Ind., 790.
harrisii Hentz. Jour. Acad. Nat. Sci. Phila., v, 373.
lesueuri Laporte and Gory. *misella.* Mon. Bupr., 2, 49.
pusilla Laporte and Gory. Coleop. Ind., 791.
scabripennis Laporte and Gory. Mon. Bupr., 2, 53. (K.F.C.)
sexsignata Say. Coleop. Ind., 791.

Actenodes Lacordaire.

acornis Say. Coleop. Ind., 792.

Eupristocerus Deyrolle.

cogitans Weber. Coleop. Ind., 796.

Agrilus Stephens.

acutipennis Mannerheim. Coleop. Ind., 800.
arcuatus Say. *Ibid.*, 799.
arcuatus var. **obliquus** LeConte. Trans. Am. Phil. Soc., ii, 243.
auricomus Frost. Can. Ent., xliv., 250. (A.B.C.)
bilineatus Weber. Coleop. Ind., 800.
cephalicus LeConte. Can., Ent., xliv., 249.
champlaini Frost. *Ibid.*, xliv., 245.
defectus LeConte. Trans. Am. Phil. Soc., ii, 234.
egenus Gory. Coleop. Ind., 804.
horni Kerremans. *blanchardi. Ibid.*, 801.
juglandis Knull. Ent. News, xxxi, 7.
lateralis Say. Coleop. Ind., 798.
masculinus Horn. *Ibid.*, 799.

obsoletoguttata Gory. *Ibid.*, 802.
otiosus Say. *Ibid.*, 798.
politus Say. *Ibid.*, 801.
ruficollis Fabricius. *Ibid.*, 798.
vittaticollis Randall. *Ibid.*, 800. (A.H.Me.)

Pachyscelus Solier.

ovatus Say. *lævigatus*. Coleop. Ind., 807.
purpureus Say. *Ibid.*, 807.

Brachys Solier.

ærosa Melsheimer. Coleop. Ind., 806.
æruginosa Gory. *Ibid.*, 806.
ovata Weber. *Ibid.*, 806.

Taphrocerus Solier.

gracilis Say. Coleop. Ind., 805.

Mastogenius Solier.

subcyaneus LeConte. Coleop. Ind., 795.

Family PSEPHENIDÆ.

Psephenus Haldeman.

lecontei LeConte. Coleop. Ind., 677.

Family DRYOPIDÆ.

Dryops Olivier.

fastigiatus Say. Coleop. Ind., 679.
lithophilus Germar. *Ibid.*, 678.
productus LeConte. Trans. Am. Ent. Soc., iii, 32.

Family ELMIDÆ.

Macronychus Müller.

glabratus Say. Coleop. Ind., 682.

Stenelmis Dufour.

crenatus Say. Coleop. Ind., 681.

Elmis Latreille.

elegans LeConte. Trans. Am. Ent. Soc., iii, 36.
foveatus LeConte. *Ibid.*, v, 53.
latiusculus LeConte. *Ibid.*, iii, 37.
quadrinotatus Say. Coleop. Ind., 679.
sp.
sp.

Family HETEROCERIDÆ.

Heterocerus Fabricius.

tristis Mannerheim. Coleop. Ind., 685.
ventralis Melsheimer. *Ibid.*, 684. (C.C.)

Family GEORYSSIDÆ

Georyssus Latreille.

pusillus LeConte. Coleop. Ind., 675.

Family DASCILLIDÆ.

Eurypogon Motschulsky.

niger Melsheimer. Coleop. Ind., 689.

Ptilodactyla Latreille.

serricollis Say. Coleop. Ind., 691.

Eucinetus Germar.

terminalis LeConte. Coleop. Ind., 692.

Ectopria LeConte.

nervosa Melsheimer. Coleop. Ind., 692. (C.C.)

Family HELODIDÆ (or CYPHONIDÆ.)

Helodes Latreille.

pulchella Guérin-Méneville. Coleop. Ind., 694. (C.C.)
thoracia Guérin-Méneville, *Ibid.*, 694.

Scirtes Illiger.

orbiculatus Fabricius. Coleop. Ind., 694.
tibialis Guérin-Méneville. *Ibid.*, 694. (F.K.)

Cyphon Paykull.

collaris Guérin-Méneville. Coleop. Ind., 696. (C.C.)
obscurus Guérin-Méneville. *Ibid.*, 695.
ruficollis Say. *Ibid.*, 695.
variabilis Thunberg. *Ibid.*, 696.

Family BYTURIDÆ.

Byturus Latreille.

unicolor Say. Raspberry fruit worm. Raspberry byturus Coleop. Ind., 589.

Family DERMESTIDÆ.

Dermestes Linnæus.

caninus Germar. Coleop. Ind., 590.

lardarius Linnæus. Larder beetle. Ham beetle. Coleop. Ind., 591: Bur. Ent., Bull. 4 new ser. 107.

talpinus Mannerheim. Coleop. Ind., 591. (G.D.) (K.F.C.)

vulpinus Fabricius. *Ibid.*, 591.

Attagenus Latreille.

pellio Linnæus. Coleop. Can., 305. (C.C.)

piceus Olivier. Black carpet beetle. Coleop. Ind., 592: Bur. Ent., Bull. 4 new ser. 61.

Trogoderma Latreille.

ornatum Say. Coleop. Ind., 593. (C.C.)

tarsale Melsheimer. *Ibid.*, 593.

Cryptorophalum Guérin-Méneville.

triste LeConte. Coleop. Ind., 594.

Anthrenus Geoffroy.

scrophulariæ Linnæus. Carpet Beetle. "Buffalo bug." Coleop. Ind., 595: Bur. Ent., Bull. 4 new ser. 59.

scrophulariæ var. **lepidus** LeConte. Jour. N. Y. Ent. Soc., viii, 160.

verbasci Linnæus. Coleop. Ind., 597.

Family BYRRHIDÆ.

Cytilus Erichson.

alternatus Say. *sericeus.* Coleop. Ind., 673.

Syncalypta Stephens.

spinosa Rossi. Mem. Coleop., iii, 17. (H. E. Smith.)

Percinolus Mulsant.

undatus Melsheimer. *murinus.* Coleop. Ind., 673.

Byrrhus Linnæus.

americanus LeConte. Coleop. Ind., 673.

Family OSTOMIDÆ.

(TROGOSITIDÆ.)

Nemosoma Latreille.

parallelum Melsheimer. Proc. Acad. Nat. Sci. Phila., ii, 108.

Tenebroides Piller and Metterpacker.

americana Kirby. Coleop. Ind., 665. (K.F.C.)
bimaculata Melsheimer. *Ibid.*, 665. (C.S.)
corticalis Melsheimer. *Ibid.*, 664.
mauritanica Linnæus. *Ibid.*, 663.

Thymalus Duftschmid.

fulgidus Erichson. Coleop. Can., 733.

Family NOSODENDRONIDÆ.

Nosodendron Latreille.

unicolor Say. Coleop. Ind., 672.

Family NITIDULIDÆ.

Brachypterus Erichson.

urticæ Fabricius. Coleop. Ind., 630.

Cercus Latreille.

abdominalis Erichson. Coleop. Ind., 630.

Carpophilus Stephens.

brachypterus Say. Coleop. Ind., 633.
dimidiatus Fabricius. *Ibid.*, 632.
hemipterus Linnæus. *Ibid.*, 632.
niger Say. *Ibid.*, 632.

Colopterus Erichson.

Colastus.

maculatus Erichson. Trans. Am. Ent. Soc., vii, 282.
semitectus Say. Coleop. Ind., 634.
trunctatus Randall. *Ibid.*, 634.
unicolor Say. *Ibid.*, 634.

Conotelus Erichson.

obscurus Erichson. Coleop. Ind., 635.

Epuræa Erichson.

avara Randall. Coleop. Ind., 638.
helvola Erichson. *Ibid.*, 637.
labilis Erichson. *Ibid.*, 640.

Nitidula Fabricius.

rufipes Linnæus. Coleop. Ind., 641.
ziczac Say. *Ibid.*, 641.

Stelidota Erichson.

geminata Say. Coleop. Ind., 641.
octomaculata Say. *Ibid.*, 641. (M.P.Z.)

Phenolia Erichson.

grossa Fabricius. Coleop. Ind., 642.

Osmosita Erichson.

colon Linnæus. Coleop. Ind., 643.

Lobiopa Erichson.

undulata Say. *Soronia.* Coleop. Ind., 643.

Oxycnemis Erichson.

histrina LeConte. *Psilopyga.* Coleop. Ind., 645. (A.B.C.) (H.B.K.)

Meligethes Stephen.

æneus Fabricius. *brassicæ* Scopoli. Coleop. Ind., 644.

Pallodes Erichson.

silaceus Erichson. *pallidus.* Coleop. Ind., 646.

Cychramus Kugelan.

adustus Erichson. Coleop. Ind., 647. (C.C.)

Cryptarcha Shuckard.

ampla Erichson. Coleop. Ind., 648.

Glischrochilus Reitter.

Ips.

confluentus Say. Coleop. Ind., 650.
quadriguttatus Fabricius. *fasciatus.* *Ibid.*, 649.
sanguinolentus Olivier. *Ibid.*, 649.

Family RHIZOPHAGIDÆ.

Rhizophagus Herbst.

approximatus LeConte? Trans. Am. Ent. Soc., vii, 330.
bipunctatus Say. Coleop. Ind., 651. (C.C.)
minutus Mannerheim. *Ibid.*, 651. (C.C.)

Family MONOTOMIDÆ.

Europs Wollaston.

pallipennis LeConte. Coleop. Ind., 669. (C.S.)

Bactridium LeConte.

hudsoni Casey. Mem. Coleop., vii, 99.

Family CUCUJIDÆ.

Silvanus Latreille.

bidentatus Fabricius. Coleop. Ind., 562.
imbellis LeConte. *Ibid.*, 563.
planatus Germar. Trans. Amt. Ent. Soc., xi 72. (F.K.)

Oryzæphilus Ganglbauer.

surinamensis Linnæus. Saw-toothed grain weevil. Coleop. Ind., 562; Bur. Ent., Bull iv. new ser. 121.

Catogenus Westwood.

rufus Fabricius. Coleop. Ind., 564.

Cucujus Fabricius.

clavipes Fabricius. Coleop. Ind., 565.

Læmophlæus Laporte.

adustus LeConte. Coleop. Ind., 567. (C.C.)
biguttatus Say. *Ibid.*, 567.
convexulus LeConte. *Ibid.*, 566.
fasciatus Melsheimer. *Ibid.*, 567.
pusillus Schonherr. Trans. Am. Ent. Soc., xi. 93.
testaceus Fabricius. Coleop. Ind., 567. (C.C.)

Lathropus Erichson.

vernalis LeConte. Coleop. Ind., 568. (C.C.)

Dendrophagus Schonherr.

glaber LeConte. Coleop. Ind., 566.

Brontes Fabricius.

debilis LeConte. Coleop. Ind., 568. (C.C.)
dubius Fabricius. *Ibid.*, 568. (G.D.)

Telephanus Erichson.

velox Haldeman. Coleop. Ind., 567.

Family EROTYLIDÆ.

Languria Latreille.

gracilis Newman. Coleop. Ind., 543.
lecontei Crotch. *Ibid.*, 543.
mozardi Latreille. Clover stem borer. *Ibid.*, 542.
tædata LeConte. Jour. N. Y. Ent. Soc., xii. 199. (H.B.K.)

Acropteroxys Gorham.

lecontei Crotch. Coleop. Ind., 543.

Megalodacne Crotch.

fasciata Fabricius. Coleop. Ind., 545.
heros Say. *Ibid.*, 545.

Mycotretus Lacordaire.*

sanguinipennis Say. Coleop. Ind., 546. (K.F.C.)

Tritoma Fabricius.

angulata Say. Coleop. Ind., 548.
biguttata Say. *Ibid.*, 548.
flavicollis LeConte. *Ibid.*, 549.
humeralis Fabricius. *Ibid.*, 547.
thoracica Say. *Ibid.*, 549.
unicolor Say. *Ibid.*, 548.

Family DERODONTIDÆ.

Laricobius Rosenhauer.

erichsoni Rosenhauer. *rubidus*. New Spec. N. A. Coleop., 99.

Family CRYPTOPHAGIDÆ.

Telmatophilus Heer.

americanus LeConte. Coleop. Ind., 573.

Loberus LeConte.

impressus LeConte. Coleop. Ind., 573. (C.C.)

Tomarus LeConte.

pulchellus LeConte. Coleop. Ind., 574.

Antherophagus Latreille.

ochraceous Melsheimer. Coleop. Ind., 574.

* See also appendix.

Cryptophagus Herbst.
cellaris Scopoli. Coleop. Can., 295. (C.C.)
croceus Zimmerman. Coleop. Ind., 576.
nodangulus Zimmerman. *Ibid.*, 577.

Cænoscelis Thomson.
ferruginea Sahlberg. Coleop. Ind., 579.

Atomaria Stephens.
curtula Casey. Jour. N. Y. Ent. Soc., viii, 122.
ephippiata Zimmerman. Coleop. Ind., 581.
ovalis Casey. *Ibid.*, 581.
pusilla Paykull. *Ibid.*, 580. (C.W.L.)

Family MYCETOPHAGIDÆ.

Mycetophagus Hellwig.
bipustulatus Melsheimer. Coleop. Ind., 584. (C.C.)
flexuosus Say. *Ibid.*, 584.
melsheimeri LeConte. *Ibid.*, 584.
punctatus Say. *Ibid.*, 584.

Litargus Erichson.
didesmus Say. Coleop. Ind., 586.
tetraspilotus LeConte. *Ibid.*, 586. (A.B.C.)

Typhæa Stephens.
fumata Linnæus. Coleop. Ind., 587.

Family COLYDIIDÆ.

Synchita Hellwig.
fuliginosa Melsheimer. Coleop. Ind., 551.

Bitoma Herbst.
quadriguttata Say. Coleop. Ind., 552.

Colydium Fabricius.
lineola Say. Coleop. Ind., 555. (C.S.)

Cerylon Latreille.
castaneum Say. Coleop. Ind., 557.
sticticum Casey. Ann. N. Y. Acad. Sci., 1896, 336.

Philothermus Aubé.
glabriculus LeConte. Coleop. Ind., 557. (C.C.)

Family LATHRIDIIDÆ.

Lathridius Herbst.

liratus LeConte. Coleop. Ind., 653.

Enicmus Thomson.

minutus Linnæus. *Lathridius.* Coleop. Ind., 655.

Cartodere Thomson.

filiformis Gyllenhal. Coleop. Ind., 656.

ruficollis Marsham. *publicarius.* Trans. Am. Ent. Soc., xxvi, 137. (G.D.)

Corticaria Marsham.

ferruginea Marsham. *deleta.* Coleop. Ind., 658.

serrata Paykull. *Ibid.,* 658.

Melanophthalma Motschulsky

Corticaria.

cavicollis Mannerheim. Coleop. Ind., 661.

distinguenda Comolli. *Ibid.,* 660.

picta LeConte. *Ibid.,* 659. (C.C.)

pumila LeConte. *Ibid.,* 660. (C.C.)

Family MYCETÆIDÆ.

Mycetæa Stephens.

hirta Marsham. Trans. Am. Ent. Soc., iv, 362. (G.D.)

Family ENDOMYCHIDÆ.

Endomychus Panzer.

biguttatus Say. Coleop. Ind., 537.

Lycoperdina Latreille.

ferruginea LeConte. Coleop. Ind., 538.

Aphorista Gorham.

vittata Fabricius. Coleop. Ind., 538.

Mycetina Mulsant.

perpulchra Newman. Coleop. Ind., 539. (C.C.)

Stenotarsus Perty.

hispidus Herbst. Coleop. Ind., 539. (C.C.)

testacea Ziegler. *Mycetina.* Trans. Am. Ent. Soc., iv, 360. (G.D.)

Family PHALACRIDÆ.

Acylomus Sharp.

ergoti Casey. Coleop. Ind., 500.

Olibrus Erichson.

consimilis Marsham. *Eustilbus apicalis*. Coleop. Ind., 500. (C.C.)
pallipes Say. *Ibid.*, 499.
semistriatus LeConte. *Ibid.*, 499.

Phalacrus Paykull.

penicillatus Say. Compl. Writ., ii, 230.
politus Melsheimer. Coleop. Ind., 498.
pumilio LeConte. *Ibid.*, 499.

Family COCCINELLIDÆ.

Hyperaspis Redtenbacher.

fimbriolata Melsheimer. Coleop. Ind., 522.
signata Olivier var. **binotata** Say. *Ibid.*, 523: Conn. Agr. Expt. Sta., Bull. 181, 8.
signata var. **proba** Say. Coleop. Ind., 523.
undulata Say. *Ibid.*, 522.

Brachyacantha Chevrolat.

ursina Fabricius. Coleop. Ind., 520: Conn. Agr. Expt. Sta., Bull. 181, 9.

Microweisia Cockerell.

misella LeConte. *Pentilia. Smilia.* Conn. Agr. Expt. Sta., Rept. 1902, 128, Bull. 181, 8: Coleop. Ind., 524.

Scymnus Kugelan.

americanus Mulsant. Coleop. Ind., 528.
brullei Mulsant. Trans. Am. Ent. Soc., xxii, 101.
collaris Melsheimer. Coleop. Ind., 530.
fraternus LeConte. *Ibid.*, 529.
puncticollis LeConte. *Ibid.*, 530.
tenebrosus Mulsant. *Ibid.*, 531.

Delphastus Casey.

pusillus LeConte. Coleop. Ind., 519: Conn. Agr. Expt. Sta., Bull. 181, 9.

Coccidula Kugelan.

lepida LeConte. Coleop. Ind., 533: Conn. Agr. Expt. Sta., Bull. 181, 6.

Psyllobora Chevrolat.

viginti-maculata Say. *20-maculata.* Twenty-spotted lady beetle. Coleop. Ind., 517: Conn. Agr. Expt. Sta., Bull. 181, 12.

Anisosticta Duponchel.

seriata Melsheimer. *Næmia.* Jour. N. Y. Ent. Soc., vii, 75: Conn. Agr. Expt. Sta., Bull. 181, 22.

strigata Thunberg. Coleop. Ind., 510: Conn. Agr. Expt. Sta., Bull. 181, 23.

Ceratomegilla Crotch.

fuscilabris Mulsant, *Megilla.* Spotted lady beetle. Erroneously *maculata* DeGeer, a tropical species. Coleop. Ind., 510: Conn. Agr. Expt. Sta., Bull. 181, 21.

Hippodamia Mulsant.

convergens Guérin-Ménéville. Coleop. Ind., 512: Conn. Agr. Expt. Sta., Bull. 181, 18.

glacialis Fabricius. Coleop. Ind., 512: Conn. Agr. Expt. Sta., Bull. 181, 20.

parenthesis Say. Coleop. Ind., 511: Conn. Agr. Expt. Sta., Bull. 181, 20.

tredecempunctata Linnæus. *13-punctata.* Thirteen-spotted lady beetle. Coleop. Ind., 511: Conn. Agr. Expt. Sta., Bull. 181, 20.

Coccinella Linnæus.

monticola Mulsant. Jour. N. Y. Ent. Soc., vii, 89.

novemnotata Herbst. *9-notata.* Nine-spotted lady beetle. Coelop. Ind., 514: Conn. Agr. Expt. Sta., Bull. 181, 15.

perplexa Melsheimer. *trifasciata.* Jour. N. Y. Ent. Soc., vii, 89: Conn. Agr. Expt. Sta., 181, 16.

transversoguttata Fabricius. *5-notata.* Five-spotted lady beetle. Jour. N. Y. Ent. Soc., vii, 89: Conn. Agr. Expt Sta., Bull. 181, 16.

Cycloneda Crotch.

munda Say. Red lady beetle. Erroneously *Coccinella sanguinea*, a tropical species. Coleop. Ind., 515: Conn. Agr. Expt. Sta., Bull. 181, 17.

Adalia Mulsant.

bipunctata Linnæus. Two-spotted lady beetle. Coleop. Ind., 515: Conn. Agr. Expt. Sta., Bull. 181, 17.

frigida Schneider. Coleop. Ind., 516.

frigida var. **opthalmica** Mulsant. *Ibid.*, 516. (K.F.C.)

humeralis Say. *bipunctata* (or *frigida*) var. *humeralis*. Jour. N. Y. Ent. Soc., vii, 85: Conn. Agr. Expt. Sta., Bull. 181, 18.

Anisocalvia Crotch.

duodecimmaculata Gebler. *12-maculata*. Jour. N. Y. Ent. Soc., vii, 97.

Anatis Mulsant.

quindecimpunctata Olivier. *15-punctata*. Fifteen-spotted lady beetle. Coleop. Ind., 516: Conn. Agr. Expt. Sta., Rept. 1909-10, 705. Bull. 181, 13.

quindecimpunctata var. **mali** Say. Coleop. Ind., 516. (K.F.C.)

Neomysia Casey.

pullata Say. *Mysia*. Jour. N. Y. Ent. Soc., vii, 99.

Chilocorus Leach.

bivulnerus Mulsant. Twice-stabbed lady beetle. Conn. Agr. Expt. Sta., Rept. 1902, 127: Bull. 165, 15: Bull. 181, 10: Coleop. Ind., 518.

Harmonia Authors not Mulsant.

picta Randall. *Cleis*. Jour. N. Y. Ent. Soc., xi, 205: Conn. Agr. Expt. Sta., Bull. 181, 14.

similis Randall. *Cleis*. *Anisocalvia*. Jour. N. Y. Ent. Soc., xi, 206.

Epilachna Chevrolat.

borealis Fabricius. Squash lady beetle. Conn. Agr. Expt. Sta., Rept. 1908, 810: Bull. 181, 11: Coleop. Ind., 532.

Family ALLECULIDÆ.

(CISTELIDÆ.)

Lobopoda Solier (or **Allecula** Fabricius).

atra Say. Ann. N. Y. Acad. Sci., vi, 82. (T.L.C.)

Hymenorus Mulsant.

niger Melsheimer. *nigrinus*. Coleop. Ind., 1274.

pilosus Melsheimer. *Ibid.*, 1274: Ann. N. Y. Acad. Sci., vi, 93.

Pseudocistela Crotch.

brevis Say. Coleop. Ind., 1276.

Isomira Mulsant.

quadriseriata Couper. Coleop. Ind., 1277.

sericea Say. *Cistela. Ibid.*, 1277.

Mycetochara Berthold.

binotata Say. *Mycetochares.* Coleop. Ind., 1281.

Chromatica LeConte.

amœna Say. Coleop. Ind., 1276. (A.B.C.) (H.B.K.)

Capnochroa LeConte.

fuliginosa Melsheimer. Coleop. Ind., 1282.

Androchirus LeConte.

erythropus Kirby. Coleop. Ind., 1283.

Family TENEBRIONIDÆ.*

Hopatrinus Latreille.

minimus Beauvois. *notus.* Coleop. Ind., 1252.

Blapstinus Latreille.

interruptus Say. Coleop. Ind., 1253.

metallicus Fabricius. *Ibid.*, 1253.

mœstus Melsheimer. *Ibid.*, 1252.

Phaleria Latreille.

testacea Say. Long's Exp., ii, 280.

Bolitotherus Candeze.

cornutus Panzer. *bifurcus.* Coleop. Ind., 1267.

Bolitophagus Illiger.

corticola Say. Coleop. Ind., 1267.

Diaperis Geoffroy.

maculata Olivier. Coleop. Ind., 1261.

Hoplocephala Laporte.

bicornis Olivier. *Arrhenoplita.* Coleop. Ind., 1261.

Platydema Laporte.

ellipticum Fabricius. Coleop. Ind., 1263. (C.C.)

erythrocera Laporte. *Ibid.*, 1263.

excavatum Say. *Ibid.*, 1262.

ruficorne Sturm. *Ibid.*, 1263.

subcostatum Laporte. *Ibid.*, 1264.

* See also appendix.

Tribolium MacLeay.

confusum Duval. Confused flour beetle. Coleop. Ind., 1255: Bur. Ent., new ser., Bull. iv, 113.

Dicœdus LeConte.

punctatus LeConte. Coleop. Ind., 1256.

Palorus Mulsant.

depressus Fabricius. *melinus*. Illus. Besttabl. Kaf. Deutsch. 741.

Uloma Leporte.

impressa Melsheimer. Coleop. Ind., 1257.

Alphitobius Stephens.

diaperinus Panzer. Coleop. Ind., 1257. (C.C.)
piceus Olivier. Illus. Besttabl. Kaf. Deutsch., 748.

Hypophlœus Fabricius.

parallelus Melsheimer. Coleop. Ind., 1266. (G.D.)
tenuis LeConte. Proc. Am. Phil. Soc., xvii, 422.

Scotobates Horn.

calcaratus Fabricius. Coleop. Ind., 1248.

Xylopinus LeConte.

ænescens LeConte. Coleop. Ind., 1249.
saperdioides Olivier. *Ibid.*, 1249. (G.D.)

Hoplandrus LeConte.

fulvipes Herbst. *femoratus*. Coleop. Ind., 1248

Iphthimus Truqui.

opacus LeConte. Coleop. Ind., 1247. (G.D.)

Alobates Motschulsky.

pennsylvanica DeGeer. *Nyctobates*. Coleop. Ind., 1247.

Upis Fabricius.

ceramboides Linnæus. Ent. Syst., ii, 515. (G.D.)

Tenebrio Linnæus.

molitor Linnæus. Yellow meal worm. Bur. Ent., new ser. Bull. iv, 116: Coleop Ind., 1250.
obscurus Fabricius. Dark meal worm. Bur. Ent., new ser. Bull. iv, 117: Coleop. Ind., 1250.
picipes Herbst. *tenebroides*. Coleop. Ind., 1250.

Helops Fabricius.

æreus Germar. Coleop. Ind., 1268.

Tarpela Bates.

micans Fabricius. Coleop. Ind., 1268.

Meracantha Kirby.

contracta Beauvois. Coleop. Ind., 1269.

Strongylium Kirby.

tenuicolle Say. Coleop. Ind., 1270.

Family LAGRIIDÆ.

Arthromacra Kirby.

ænea Say. Coleop. Ind., 1284.

Statira Latreille.

gagatina Melsheimer. Coleop. Ind., 1285.

Family MELANDRYIDÆ.*

Penthe Newman.

obliquata Fabricius. Coleop. Ind., 1290.

pimelia Fabricius. *Ibid.*, 1290. (G.D.)

Synchroa Newman.

punctata Newman. Coleop. Ind., 1290.

Eustrophinus Seidletz.*

bicolor Say. *Eustrophus.* Trans. Am. Ent. Soc., xv. 34; Coleop. Ind., 1292.

Holostrophus Horn.

bifasciatus Say. Coleop. Ind., 1293. (G.D.)

Orchesia Latreille.

castanea Melsheimer. Coleop. Ind., 1294.

graçilis Melsheimer. *Ibid.*, 1294. (F.K.)

Melandrya Fabricius.

striata Say. Coleop. Ind., 1296.

Emmesa Newman.

connectens Newman. Ent. Mag., 5, 376.

labiata Say. Coleop. Ind., 1296.

Dircæa Fabricius.

quadrimaculata Say. *liturata.* Coleop. Ind., 1298.

Hypulus Paykull.

concolor LeConte. Coleop. Ind., 1298. (C.C.)

* See also appendix.

Symphora LeConte.

rugosa Haldeman. Coleop. Ind., 1299. (C.C.)

Canifa LeConte.

pallipes Melsheimer. Coleop. Ind., 1301.

Mycterus Clairville.

scaber Haldeman. Trans. Am. Ent. Soc., vii. 337.

Family PTINIDÆ.

Ptinus Linnæus.

fur Linnæus. Coleop. Ind., 865. (K.F.C.)

villiger Reitter. *Ibid.*, 865.

Family ANOBIIDÆ.

Xestobium Motschulsky.

rufovillosum DeGeer. *tessellatum*. Coleop. Ind., 868.

Ernobius Thomson.

mollis Linnæus. Coleop. Ind., 868.

Sitodrepa Thomson.

panicea Linnæus. Drug-store beetle. Coleop. Ind., 870.

Trichodesma LeConte.

gibbosa Say. Coleop. Ind., 871.

klagesi Fall. *Ibid.*, 871. (A.B.C.)

Hadrobregmus Thomson.

carinatus Say. Coleop. Ind., 872.

Trypopitys Redtenbacher.

sericeus Say. Coleop. Ind., 872.

Xyletinus Latreille.

peltatus Harris. Coleop. Ind., 874.

Lasioderma Stephens.

testaceum Duftschmid. *serricorne*. Cigarette beetle. Coleop. Ind., 875: Rept. Conn. Agr. Expt. Sta., 1906. 278.

Dorcatoma Herbst.

setulosum LeConte. Coleop. Ind., 883. (C.C.)

Cænocara Thomson.

oculata Say. Coleop. Ind., 884.

Family BOSTRICHIDÆ.

Endecatomus Mellié.

reticulatus Herbst. Coleop. Ind., 887.
rugosus Randall. *Ibid.*, 887.

Xylobiops Casey.

basilare Say. *Sinoxylon.* Coleop. Ind., 888.

Lichenophanes Lesne.

armiger LeConte. *Bostrichus.* Coleop. Ind., 888.

Bostrichus Geoffroy.

angustus Casey. Jour. N. Y. Ent. Soc., vi, 72.
bicornis Weber. Coleop. Ind., 889. (C.C.)

Dinoderus Stephens.

rugosus Oliver. *porcatus* LeConte. Coleop. Ind., 890.
punctatus Say. *Ibid.*, 890.

Family LYCTIDÆ.

Lyctus Fabricius.

opaculus LeConte. Coleop. Ind., 892.
linearis Goeze. *striatus. unipunctatus.* Powder post beetle. Coleop. Ind., 891: Bur. Ent., Circ. 55.

Family SPHINDIDÆ.

Sphindus Chevrolat.

americanus LeConte. Coleop. Ind., 902. (C.C.)

Family CISIDÆ.

Orthocis Casey.

punctulatus Mellié. Coleop. Ind., 899.

Octotemnus Mellié.

denudatus Casey. Jour. N. Y. Ent. Soc., vi, 91.

Ceracis Mellié.

sallei Mellié. Coleop. Ind., 900.

Cis Latreille.

dubius Mellié. Ann. Soc. Ent. Fr., 2d. vi, 272.
fuscipes Mellié. Coleop. Ind., 898.
sp.

Xestocis Casey.

levettei Casey. Coleop. Ind., 899.

Ennearthron Mellié.

thoracicorne Ziegler. Coleop. Ind., 900.

sp.

Family SCARABÆIDÆ.

Canthon Hoffman.

lævis Drury. Coleop. Ind., 914.

nigricornis Say. *Ibid.*, 914. (G.D.)

Chœridium Lepeletier.

histeroides Weber. Coleop. Ind., 915.

Copris Geoffroy.

minutus Drury. Coleop. Ind., 916.

tullius Olivier. *anaglypticus*. *Ibid.*, 916.

Pinotus Erichson.

carolina Linnæus. *Copris*. Coleop. Ind., 916.

Phanæus MacLeay.

carnifex Linnæus. Coleop. Ind., 917.

Onthophagus Latreille.

hecate Panzer. Coleop. Ind., 918.

janus Panzer. *Ibid.*, 919.

janus var. **orpheus** Panzer. *Ibid.*, 919. (A.H.Me.)

janus var. **striatulus** Beauvois. *Ibid.*, 919.

pennsylvanicus Harold. *Ibid.*, 920.

Aphodius Illiger.*

congregatus Mann. Trans. Am. Ent. Soc., xiv. 12. (C.C.)

distinctus Müller. *inquinatus* Herbst. Coleop. Ind., 933.

femoralis Say. *Ibid.*, 934. (K.F.C.)

fimetarius Linnæus. *Ibid.*, 930.

fossor Linnæus. Trans. Am. Ent. Soc., xiv. 4.

granarius Linnæus. Coleop. Ind., 931.

terminalis Say? *Ibid.*, 933.

vittatus Say. *Ibid.*, 931.

Atænius Harold.

abditus Haldeman. Coleop. Ind., 926. (C.C.)

cognatus LeConte. *Ibid.*, 926.

gracilis Melsheimer. *Ibid.*, 925.

* See also appendix.

Eucanthus Westwood.

lazerus Olivier. *Bolboceras.* Coleop. Ind., 937.

Bolbocerasoma Schæffer.

farctum Fabricius. *Bolboceras.* Coleop. Ind., 937.

Odontæus Megerle.

cornigerus Melsheimer. Coleop. Ind., 938. (C.C.)
filicornis Say. *Ibid.*, 938. (C.C.)

Geotrupes Fabricius.

balyi Jekel. Trans. Am. Ent. Soc., viii. 145.
blackburnii Fabricius. Coleop. Ind., 939.
egeriei Germar. Trans. Am. Ent. Soc., viii. 145.
hornii Blanchard. Psyche v. 107.
semiopacus Jekel. Coleop. Ind., 939.
splendidus Fabricius. *Ibid.*, 939.

Amphicoma Latreille.

vulpina Hentz. Trans. Am. Ent. Soc., x. 120.

Trox Fabricius.

æqualis Say. Coleop. Ind., 946.
capillaris Say. *Ibid.*, 945.
erinaceus LeConte. *Ibid.*, 944. (C.C.)
foveicollis Harris. Trans. Am. Ent. Soc., v, 10.
insularis Chevrolat. Coleop. Ind., 945.
scaber Linnæus. *Ibid.*, 946.
sordidus LeConte. *Ibid.*, 945.
terrestris Say. *Ibid.*, 946.
unistriatus Beauvois. *Ibid.*, 945.

Serica Mac Leay.

cucullata Dawson. Jour. N. Y. Ent. Soc., xxvii, 34.
sericea Illiger. Coleop. Ind., 958.
tristis LeConte. *Ibid.*, 958.
trociformis Burmeister. *Ibid.*, 958.
vespertina Gyllenhal. *Ibid.*, 956.

Diplotaxis Kirby.

atlantis Fall. Trans. Am. Ent. Soc., xxxv. 44.
liberta Germar. Coleop. Ind., 954.
sordida Say. *Ibid.*, 955.
tristis Kirby. *Ibid.*, 954. (F.K.)

Phyllophaga Harris.

Lachnosterna Hope.

May or June Beetles.

anxia LeConte. *dubia. insperata.* Coleop. Ind., 970. (J.K.L.)
crenulata Frohlich. *Ibid.*, 979.
drakei Kirby. *grandis. Ibid.*, 970.
fœrsteri Burmeister. *nova. Ibid.*, 972.
fraterna Harris. *Ibid.*, 972.
fusca Frohlich. *Ibid.*, 968.
gracilis Burmeister. *Ibid.*, 964.
hirsuta Knoch. *Ibid.*, 974. (A.B.C.)
hirticula Knoch. *Ibid.*, 976.
ilicis Knoch. *ciliata. Ibid.*, 978.
marginalis LeConte. *Ibid.*, 970. (A.B.C.)
micans Knoch. *Ibid.*, 967. (C. W. F. Wagner.)
tristis Fabricius. *Ibid.*, 979.

Polyphylla Harris.

variolosa Hentz. Trans. Am. Ent. Soc., ix, 75. (G.D.) (J.K.L.)

Dichelonyx Harris.

albicollis Burmeister. Coleop. Ind., 953.
diluta Fall. *Ibid.*, 952.
elongata Fabricius. *Ibid.*, 952.
testacea Kirby. *Ibid.*, 951. (K.F.C.)

Hoplia Illiger.

equina LeConte. Trans. Am. Ent. Soc., viii. 193.
limbata LeConte. *modesta.* Coleop. Ind., 950.
trifasciata Say. *Ibid.*, 949.

Macrodactylus Latreille.

subspinosus Fabricius. Rose chafer. Rose beetle. Bur. Ent., Circ. 11 : Rept. Conn. Agr. Expt. Sta., 1916, 111.

Anomala Samouelle.

binotata Gyllenhal. Coleop. Ind., 982 : Rept. Conn Agr. Expt. Sta., 1902, 176.

Hemispilota Casey.

lucicola Fabricius. *Anomala.* Coleop. Ind., 985.

Pelidnota MacLeay.

punctata Linnæus. Spotted grape-vine beetle. Coleop. Ind., 986.

Cotalpa Burmeister.

lanigera Linnæus. Goldsmith beetle. Coleop. Ind., 987.

Dyscinetus Harold.

trachypygus Burmeister. Coleop. Ind., 990.

Ligyrus Burmeister.

gibbosus DeGeer. Coleop. Ind., 991.

Ligyrodes Casey.

relictus Say. Coleop. Ind., 992.

Aphonus LeConte.

castaneus Melsheimer. Mem. Coleop., vi, 220.

tridentatus Say. Coleop. Ind., 992. (G.D.)

Xyloryctes Hope.

satyrus Fabricius. Coleop. Ind., 992.

Cotinis Burmeister.

nitida Linnæus. *Allorhina.* Coleop. Ind., 996.

Euphoria Burmeister.

fulgida Fabricius. Coleop. Ind., 998.

inda Linnæus. Bumble flower beetle. *Ibid.*, 998.

Stephanucha Burmeister.

areata Fabricius. Coleop. Ind., 997.

Cremastocheilus Knoch.

canaliculatus Kirby. Coleop. Ind., 1000.

castaneæ Knoch. *Ibid.*, 1000.

harrisii Kirby. *Ibid.*, 1000. (C.C.)

variolosus Kirby. *Ibid.*, 999.

Osmoderma Lepeletier.

eremicola Knoch. Coleop. Ind., 1001.

scabra Beauvois. *Ibid.*, 1002.

Gnorimella Casey.

maculosus Knoch. *Gnorimus.* Coleop. Ind., 1002.

Trichionotus Casey.

affinis Gory. Coleop. Ind., 1004.

piger Fabricius. *Ibid.*, 1003.

Valgus Scriba.

squamiger Beauvois. Coleop. Ind., 1005.

Family LUCANIDÆ.

Lucanus Linnæus.

capreolus Linnæus. *dama*. Stag beetle. Coleop. Ind., 905.

Dorcus MacLeay.

parallelus Say. Coleop. Ind., 906.

Platycerus Geoffroy.

quercus Weber. Coleop. Ind., 907.

Ceruchus MacLeay.

piceus Weber. Coleop. Ind., 907. (G.D.)

Family PASSALIDÆ.

Passalus Fabricius.

cornutus Fabricius. Coleop. Ind., 908.

Family CERAMBYCIDÆ.

Parandra Latreille.

brunnea Fabricius. Coleop. Ind., 1007.

Derobrachus Serville.

brunneum Fœrster. *Orthosoma*. Lesser Prionus. Coleop. Ind., 1011.

Prionus Geoffroy.

laticollis Drury. Broad-horned Prionus. Coleop. Ind., 1011.
pocularis Dalman. *Ibid.*, 1012. (A.H.Me.)

Distenia Serville.

undata Olivier. Coleop. Ind., 1043.

Smodicum Haldeman.

cucujiforme Say. Coleop. Ind., 1016.

Asemum Eschscholtz.

mœstum Haldeman. Coleop. Ind., 1014.

Tetropium Kirby.

cinnamopterum Kirby. Coleop. Ind., 1015.

Criocephalus Mulsant.

argestis Kirby. Coleop. Ind., 1015.
obsoletus Randall. *Ibid.*, 1015.

Œme Newman.

rigida Say. Bull. Brook. Ent. Soc., vii, 116.

Tylonotus Haldeman.

bimaculatus Haldeman. Coleop. Ind., 1026.

Stromatium Serville.

pubescens Haldeman. Coleop. Ind., 1022.

Chion Newman.

cinctus Drury. Coleop. Ind., 1022. (A.H.Me.)

Romaleum White.

atomarium Drury. Coleop. Ind., 1023.

rufulum Haldeman. *Ibid.*, 1023.

Hypermallus Lacordaire.

villosum Fabricius. *parallelum*. Twig pruner. Coleop. Ind., 1025.

Elaphidion Serville.

mucronatum Say. Coleop. Ind., 1024.

Pseudibion Casey.

unicolor Randall. Coleop. Ind., 1026.

Heterachthes Newman.

ebenus Newman. Mem. Coleop., iii, 307.

quadrimaculatus Haldeman. Coleop. Ind., 1027.

Obrium Serville.

rufulum Gahan. *rubrum*. Coleop. Ind., 1028.

Rhagium Fabricius.

lineatum Olivier. Coleop. Ind., 1048.

Centrodera LeConte.

decolorata Harris. Coleop. Ind., 1048. (K.F.C.)

picta Haldeman. *Ibid.*, 1048.

Stenocorus Fabricius.

trivittatus Say. *Toxotus*. Coleop. Ind., 1047.

Hapalosalia Casey.

vibex Newman. *Leptura*. Coleop. Ind., 1059. (F.K.)

Acmæops LeConte.

directa Newman. Coleop. Ind., 1050.

thoracica Haldeman. Ent. Am., vi, 104.

Gaurotes LeConte.

cyanipennis Say. Coleop. Ind., 1050.

Anthophilax LeConte.

malachiticus Haldeman. Ent. Amer., vi, 98. (M.P.Z.)

Judolia Mulsant.

cordifera Olivier. Ent. Am., vi, 188.

Brachyleptura Casey.

rubrica Say. Coleop. Ind., 1057.

Parallelina Casey.

exigua Newman. Coleop. Ind., 1056.

Strongalepta Casey.

lineola Say. Coleop. Ind., 1055.
pubera Say. *Ibid.*, 1059.
vittata Germar. *Ibid.*, 1059.
vittata var. *Ibid.*, 1059.

Xestoleptura Casey.

octonotata Say. Coleop. Ind., 1058.

Strophiona Casey.

nitens Fœrster. *zebra*. Coleop. Ind., 1056.

Leptura Linnæus.

biforis Newman. Mem. Coleop., iv, 271. (E.L.D.)
canadensis Olivier. Coleop. Ind., 1057. (K.F.C.)
emarginata Fabricius. *Ibid.*, 1055. (A.B.C.)
hæmatites Newman. Entomologist, 73. (C.W.L.)
mutabilis Newman. Coleop. Can., 623.
vagans Olivier. Coleop. Ind., 1057. (K.F.C.)

Typocerus LeConte.

acuticauda Casey. Mem. Coleop., iv, 274. (H.L.J.)
velutinus Olivier. Coleop. Ind., 1053.

Ophistomis Thomson.

Strangalia.

acuminata Olivier. Coleop. Ind., 1051.
famelica Newman. *Ibid.*, 1051.
luteicornis Fabricius. *Ibid.*, 1052.

Encyclops Fabricius.

cæruleus Say. Coleop. Ind., 1045. (G.D.)

Desmocerus Serville.

palliatus Fœrster. Coleop. Ind., 1044.

Molorchus Fabricius.

bimaculatus Say. Coleop. Ind., 1028.

Merium Kirby.

proteus Kirby. Coleop. Ind., 1019. (C.C.)

Anacomis Casey.

ligneus Fabricius. *Hylotrupes.* Coleop. Ind., 1019.

Callidium Fabricius.

antennatum Newman. Coleop. Ind., 1019.
frigidum Casey. Mem. Coleop., viii, 289.
janthimum LeConte. Coleop. Ind., 1019.

Phymatodes Mulsant.

æreum Newman. Coleop. Ind., 1019.
amœnus Say. *Ibid.,* 1018.
dimidiatus Kirby. *Ibid.,* 1018.
variabilis Fabricius. *Ibid.,* 1018.
varius Fabricius. *Ibid.,* 1018.

Cyllene Newman.

caryæ Gahan. *pictus.* Hickory borer. Coleop. Ind., 1033.
robiniæ Fœrster. Locust borer. *Ibid.,* 1034: Bur. Ent., Cir., 83.

Arhopalus Serville.

fulminans Fabricius. Coleop. Ind., 1035.

Glycobius LeConte.

speciosus Say. *Plagionotus.* Maple borer. Rept. Conn. Agr. Expt. Sta., 1900. 337: 1907. 336: Coleop. Ind., 1034.

Calloides LeConte.

nobilis Harris. Coleop. Ind., 1035.

Xylotrechus Chevrolat.

aceris Fisher. Proc. Wash. Ent. Soc., xviii, 215.
colonus Fabricius. Coleop. Ind., 1037.
quadrimaculatus Haldeman. *Ibid.,* 1036. (A.B.C.)
saggitatus Germar. *Ibid.,* 1037. (A.B.C.)
undulatus Say. *Ibid.,* 1037.
undulatus var. **fuscus** Kirby. *Ibid.,* 1037.

Neoclytus Thomson.

acuminatus Fabricius. *erythrocephalus.* Coleop. Ind., 1038.
capræa Say. *Ibid.,* 1039.
muricatulus Kirby. *Ibid.,* 1038.

Anthoboscus Chevrolat.

ruricola Olivier. *Clytanthus.* Coleop. Ind., 1039.

Clytus Laichartig.

marginicollis Laporte. Coleop. Ind., 1040.

Cyrtophorus LeConte.
verrucosus Olivier. Coleop. Ind., 1040.

Tillomorpha Blanchard.
geminata Haldeman. Coleop. Ind., 1040. (A.B.C.)

Euderces LeConte.
picipes Fabricius. Coleop. Ind., 1041.

Stenosphenus Haldeman.
notatus Olivier. Coleop. Ind., 1032.

Purpuricenus Serville.
axillaris Haldeman. Coleop. Ind., 1031. (A.B.C.)
humeralis Fabricius. *Ibid.*, 1030.

Batyleoma Casey.
suturalis Say. *Batyle.* Coleop. Ind., 1031.

Cyrtinus LeConte.
pygmæus Haldeman. Coleop. Ind., 1062. (A.B.C.)

Psenocerus LeConte.
supernotatus Say. Coleop. Ind., 1062.

Monohammus Serville.
notatus Drury. *confusor.* Trans. Am. Ent. Soc., xxiii, 109.
marmorator Kirby. *Ibid.*, xxiii, 109.
scutellatus Say. Coleop. Ind., 1065.
titillator Fabricius. *Ibid.*, 1064.

Dorcaschema LeConte.
nigrum Say. Coleop. Ind., 1066. (D.J.C.)

Hetœmis Haldeman.
cinerea Olivier. Coleop. Ind., 1066.

Cacoplia LeConte.
pullata Haldeman. Trans. Am. Ent. Soc., xxiii, 111.

Goes LeConte.
pulchra Haldeman. Coleop. Ind., 1067.
pulverulenta Haldeman. *Ibid.*, 1067.
tigrina DeGeer. Coleop. Ind., 1067.

Ægomorphus Haldeman.
decipiens Haldeman. *Acanthoderes.* Coleop. Ind., 1070.

Leptostylus LeConte.*
collaris Haldeman. Coleop. Ind., 1071.
guttata Say. *sexguttata. Ibid.*, 1072.

* See also appendix.

Astylopsis Casey.

macula Say. Coleop. Ind., 1072.

Leiopus Serville.

alpha Say. Coleop. Ind., 1074.
punctatus Haldeman. *Ibid.*, 1074. (C.C.)
variegatus Haldeman. *Ibid.*, 1074.

Lepturges Bates.

querci Fitch. Coleop. Ind., 1077.
facetus Say. *Ibid.*, 1077.
signatus LeConte. *Ibid.*, 1076.
symmetricus Haldeman. *Ibid.*, 1076.

Hyperplatys Haldeman.

aspersus Say. Coleop. Ind., 1078.
maculatus Haldeman. *Ibid.*, 1078.

Urographis Horn.

fasciatus DeGeer. *Graphisurus.* Coleop. Ind., 1079.

Dectes LeConte.

spinosus Say. Coleop. Ind., 1075.

Hoplosia Mulsant.

nubila LeConte. Trans. Am. Ent. Soc., xxiii, 134.

Pogonocherus Latreille.

mixtus Haldeman. Coleop. Ind., 1081.

Encyrus LeConte.

dasycerus Say. Coleop. Ind., 1081.

Eupogonius LeConte.

vestitus Say. Coleop. Ind., 1082. (A.B.C.) (H.B.K.)

Oncideres Serville.

cingulata Say. Hickory twig-girdler. Fifth Rept.. U. S. Ent. Com., 288.

Saperda Fabricius.

candida Fabricius. Round-headed apple borer. Rept. Conn. Agr. Expt. Sta., 1907. 333: N. Y. State Mus., Bull. 74. 23.
calcarata Say. Poplar borer. Coleop. Ind., 1086. N. Y. State Mus. Bull. 74. 39.
concolor LeConte. var. **unicolor** Joutel. Willow Borer. N. Y. State Mus. Bull. 74. 74: Coleop. Ind., 1086.

cretata Newman. Spotted apple tree borer. Coleop. Ind., 1088. N. Y. State Mus., Bull. 74. 50. (C.C.)
discoidea Fabricius. Hickory borer. Coleop. Ind., 1089. N. Y. State Mus., Bull. 74. 52.
lateralis Fabricius. Red-edged Saperda. Coleop. Ind., 1088: N. Y. State Mus., Bull. 74, 59.
mœsta LeConte. Coleop. Ind., 1085. N. Y. State Mus., Bull. 74. 71. (C.C.)
obliqua Say. Alder borer. N. Y. State Mus., Bull. 74, 18.
puncticollis Say. Coleop. Ind., 1085. (A.B.C.)
tridentata Olivier. Elm borer. Coleop. Ind., 1087. N. Y. State Mus., Bull. 74, 44.
vestita Say. Linden borer. Coleop. Ind., 1089: N. Y. State Mus. Bull. 74. 54.

Oberea Mulsant.*

bimaculata Olivier var. basalis. LeConte. Coleop. Ind., 1092.
ocellata Haldeman. *Ibid.*, 1092.
ruficollis Fabricius. Trans. Am. Ent. Soc., vii. 47.
schaumii LeConte. Coleop. Ind., 1091. (F.K.)
tripunctata Swederus. *Ibid.*, 1092.
tripunctata var. mandarina Fabricius. Trans. Am. Ent. Soc., vii, 47.

Tetraopes Serville.

canteriator Drapiez. Coleop. Ind., 1094.
tetraophthalmus Fœrster. *Ibid.*, 1094.

Family CHRYSOMELIDÆ.

Donacia Fabricius.

cincticornis Newman. Coleop. Ind., 1102.
dives LeConte. Proc. Acad. Nat. Sci. Phila., v, 314.
emarginata Kirby. Coleop. Ind., 1106.
flavipes Kirby. *Ibid.*, 1106.
hirticollis Kirby. Trans. Am. Ent. Soc., xviii, 164.
metallica Ahrens. Coleop. Ind., 1106.
palmata Olivier. *Ibid.*, 1102.
piscatrix Lacordaire. *Ibid.*, 1103. (K.F.C.)
rufa Say. *Ibid.*, 1107.
subtilis Kunze. *Ibid.*, 1103.
torosa LeConte. *Ibid.*, 1102.

* See also appendix.

tuberculata Lacordaire. Trans. Am. Ent. Soc., xviii, 171.
harrisi LeConte. *Ibid.*, 172.
sp.

Orsodacna Latreille.

atra Ahrens. var. hepatica Say. Coleop. Ind., 1108.
atra Ahrens var. vittata Say. *Ibid.*, 1108.

Zeugophora Kunze.

consanguinea Crotch. Coleop. Ind., 1109.
scutellaris Suffrian. *Ibid.*, 1109.

Syneta Lacordaire.

ferruginea Germar. Coleop. Ind., 1110.

Lema Fabricius.

brunnicollis Lacordaire. Coleop. Ind., 1111. (A.B.C.)
conjuncta Lacordaire. Proc. Phila. Acad. Nat. Sci., 1873, 25.
trilineata Olivier. Old-fashioned potato beetle. Coleop. Ind., 1111.

Crioceris Geoffroy.

asparagi Linnæus. Common asparagus beetle. Conn. Agr. Expt. Sta., 1902, 172: Bur. Ent., Circ., 102.
duodecimpunctata Linnæus. Twelve-spotted asparagus beetle. Bur. Ent., Circ. 102. 9.

Antipus DeGeer.

laticlavia Fœrster. *Anomœa.* Coleop. Ind., 1113.

Coscinoptera Lacordaire.

dominicana Fabricius. Coleop. Ind., 1113.

Babia Chevrolat.

quadriguttata Olivier. Coleop. Ind., 1114.

Saxinis Lacordaire.

omogera LeConte. Coleop. Ind., 1114. (G.D.)

Chlamys Knoch.

gibbosa Fabricius. *plicata.* Coleop. Ind., 1115.

Exema Lacordaire.

conspersa Mannerheim. Proc. U. S. Nat. Mus., xx, 480.

Bassareus Haldeman.

formosus Melsheimer. Coleop. Ind., 1119.
formosus var. sulphuripennis Melsheimer. *Ibid.*, 1119.
literatus Fabricius. *Ibid.*, 1120.

literatus var. lativittus Germar. *Ibid.*, 1120.
mammifer Newman. *Ibid.*, 1119. (G. D.)
sellatus Suffrian. *Ibid.*, 1119.

Cryptocephalus Geoffroy.

insertus Haldeman. Coleop. Ind., 1123.
mutabilis Melsheimer. *Ibid.*, 1123.
notatus Fabricius var. quadrimaculatus Say. *Ibid.*, 1122.
ornatus Fabricius. Trans. Am. Ent. Soc., xviii, 201. (H.L.J.)
quadruplex Newman. Coleop. Ind., 1122. (A.B.C.)
trivittatus Olivier. *Ibid.*, 1123.
venustus Fabricius. *Ibid.*, 1123.
venustus var. cinctipennis Randall. *Ibid.*, 1123.
venustus var. hamatus Melsheimer. *Ibid.*, 1123. (A.B.C.)
venustus var. ornatus Fabricius. *Ibid.*, 1123. (H.L.J.)

Pachybrachys Chevrolat.

atomarius Melsheimer. *infaustus.* Coleop. Ind., 1129.
carbonarius Haldeman. *Ibid.*, 1127.
confederatus Fall. Trans. Am. Ent. Soc., xli, 387.
femoratus Olivier. Coleop. Ind., 1131.
hepaticus Melsheimer. *Ibid.*, 1130.
luridus Fabricius. *Ibid.*, 1130.
m-nigrum Melsheimer. *intricatus.* Trans. Am. Ent. Soc., viii, 207.
othonus Say. Coleop. Ind., 1128.
pubescens Olivier. *morosus.* Trans. Am. Ent. Soc., viii, 206.
subfasciatus LeConte. Coleop. Ind., 1130.
tridens Melsheimer. *Ibid.*, 1129.
trinotatus Melsheimer. *Ibid.*, 1128.

Monachus Chevrolat.

saponatus Fabricius. Coleop. Ind., 1133.

Diachus LeConte.

auratus LeConte. Coleop. Ind., 1133.
pallidicornis Suffrian. *Ibid.*, 1133.

Triachus LeConte.

atomus Suffrian. Coleop. Ind., 1134.
cerinus LeConte. Trans. Am. Ent. Soc., viii, 197. (G.D.)

Chrysodina Baly.

globosa Say. Trans. Am. Ent. Soc., xix, 233.

Nodonota Lefévre.

puncticollis Say. Coleop. Ind., 1149: Trans. Am. Ent. Soc., xix, 232.

Colaspis Fabricius.

brunnea Fabricius. Brown Colaspis. Coleop. Ind., 1147.

Graphops LeConte.

pubescens Melsheimer. Coleop. Ind., 1144.

Xanthonia Baly.

decemnotata Say. Coleop. Ind., 1142.
villosula Melsheimer. *Ibid.*, 1142.

Fidia Baly.

viticida Walsh. Grape vine root worm. Coleop. Ind., 1143: N. Y. State Mus., Bull. 72.

Metachroma LeConte.

pallida Say. Coleop. Ind., 1146.

Adoxus Kirby.

obscurus Linnæus. Coleop. Ind., 1136.

Tymnes Chapuis.

tricolor Fabricius. Coleop. Ind., 1141.

Glyptoscelis LeConte.

barbata Say. Coleop. Ind., 1137.
pubescens Fabricius. *Ibid.*, 1137.

Paria LeConte.

Typophorus.

canellus Fabricius var. **atterrimus** Olivier. Coleop. Ind., 1139.
canellus var. **gilvipes** Horn. Trans. Am. Ent. Soc., xix, 208.
canellus var. **notatus** Say. Compl. Writ., ii, 213.
canellus var. **pumilis** LeConte. Coleop. Ind., 1139.
canellus var. **quadriguttatus** Horn. Coleop. Ind., 1140.
canellus var. **quadrinotatus** Say. *Ibid.*, 1139.
canellus var. **thoracicus** Melsheimer. *Ibid.*, 1139.

Chrysochus Chevrolat.

auratus Fabricius. Coleop. Ind., 1141.

Prasocuris Latreille.

phellandrii Linnæus. Coleop. Ind., 1151.
vittata Olivier. Coleop. Ind., 1151. (K.F.C.)

Labioderma Chevrolat.

clivicollis Kirby. Coleop. Ind., 1152: Jour. N. Y. Ent. Soc., iv, 195.

Leptinotarsa Stål.

decemlineata Say. *Doryphora. 10-lineata.* Colorado potato beetle. Potato bug. Coleop. Ind., 1153: Conn. Agr. Expt. Sta., Bull. 208, 106.

Zygogramma Chevrolat.

suturalis Fabricius. Coleop. Ind., 1154: Jour. N. Y. Ent. Soc., iv, 197.

Calligrapha Erichson.

elegans Olivier. *Chrysomela.* Coleop. Ind., 1156: Jour. N. Y. Ent. Soc., iv, 198.

lunata Fabricius. *hybrida.* Jour. N. Y. Ent. Soc., iv, 198.

multipunctata Say. var. **bigsbyana** Kirby. *Chrysomela.* Coleop. Ind., 1158: Jour. N. Y. Ent. Soc., iv, 199.

philadelphica Linnæus. Coleop. Ind., 1158.

philadelphica var. **spireæ** Say. Jour. N. Y. Ent. Soc., xiv, 199.

rhoda Knab. Proc. Wash. Ent. Soc., xi, 83. (G.D.)

rowena Knab. *Ibid.,* xi, 85. (G.D.)

scalaris LeConte. *Chrysomela.* Coleop. Ind., 1157: Jour. N. Y. Ent. Soc., iv, 199.

similis Rogers. Coleop. Ind., 1156.

Phædon Latreille.

armoraciæ Linnæus *cochleariæ* Gyllenhal. *Plagiodera.* Can. Ent., xxviii, 202.

Gastroidea Hope.

cyanea Melsheimer. Coleop. Ind., 1159.

polygoni Linnæus. *Ibid.,* 1159.

Lina Megerle.

lapponica Linnæus. *Melasoma. interrupta.* Coleop. Ind., 1160.

scripta Fabricius. Cottonwood leaf beetle. *Ibid.,* 1160. N. Y. Agr. Expt. Sta., Bull. 143.

tremulæ Fabricius. Coleop. Ind., 1160.

Phyllodecta Kirby.

vulgatissima Linnæus. Can. Ent., xxviii, 203.

Cerotoma Chevrolat.

trifurcata Fœrster. Coleop. Ind., 1163: Trans. Am. Ent. Soc., xx, 129: Rept. Conn. Agr. Expt. Sta., 1918, 327.

Trirhabda LeConte.

canadensis Kirby. Coleop. Ind., 1165.
virgata LeConte. *Ibid.*, 1166.

Agelasa Motschulsky.

halensis Linnæus. Coleop. Ind., 1164.

Galerucella Crotch.

americana Fabricius. Coleop. Ind., 1167.
cavicollis LeConte. *Ibid.*, 1169.
decora Say. *Ibid.*, 1170.
integra LeConte. *Ibid.*, 1167.
luteola Müller. Conn. Agr. Expt. Sta., Bull. 55 and Rept., 1908.
notata Fabricius. Coleop. Ind., 1168.
nymphææ Linnæus. *Ibid.*, 1169: Bur. Ent. Soc., Bull. 54, 58.

Monoxia LeConte.

puncticollis Say. *maritima*. Trans. Am. Ent. Soc., xx, 83.

Diabrotica Chevrolat.*

atripennis Say var. **cristata** Harris. Trans. Am. Ent. Soc., xx, 95.
atripennis var. **fossata** LeConte. *Ibid.*, xx, 95.
duodecimpunctata Olivier. *12-punctata*. Coleop. Ind., 1172: Rept. Conn. Agr. Expt. Sta., 1908, 809.
vittata Fabricius. Striped cucumber beetle. Coleop. Ind., 1173: Rept. Conn. Agr. Expt. Sta., 1908, 807: 1917, 262.

Phyllobrotica Redtenbacher.

discoidea Fabricius. Coleop. Ind., 1175.
limbata Fabricius. *Ibid.*, 1175. Trans. Am. Ent. Soc., xx, 100.

Luperodes Motschulsky.

meraca Say. Coleop. Ind., 1176.

Blepharida Rogers.

rhois Fœrster. Coleop. Ind., 1208.

Œdionychis Latreille.

fimbriata Fœrster. Coleop. Ind., 1183.
limbalis Melsheimer var. **subvittata** Horn. Trans. Am. Ent. Soc., xvi, 193.
miniata Fabricius. Coleop. Ind., 1183.
quercata Fabricius. *Ibid.*, 1185. (G.D.)
sexmaculata Illiger. *Ibid.*, 1184.
thoracica Fabricius. *Ibid.*, 1182.
vians Illiger. *Ibid.*, 1182.

* See also appendix.

Disonycha Chevrolat.

caroliniana Fabricius. Coleop. Ind., 1188.
collata Fabricius. *Ibid.*, 1191. (G.D.)
funerea Randall. Trans. Am. Ent. Soc., xvi, 208.
pennsylvanica Illiger. Coleop. Ind., 1187.
quinquevittata Say. *Ibid.*, 1188.
triangularis Say. *Ibid.*, 190.
xanthomelæna Dalman. *collaris. Ibid.*, 1190. (G.D.)

Luperaltica Crotch.

fuscula LeConte. Coleop. Ind., 1203.

Altica Geoffroy.

bimarginata Say. Alder flea beetle. Coleop. Ind., 1201.
corni Woods. Me. Agr. Expt. Sta., Bull., 273, 156.
chalybea Illiger. Coleop. Ind., 1201.
fuscoænea Melsheimer. *Ibid.*, 1202. (G.D.)
ignita Illiger. *Ibid.*, 1201.
marevagans Horn. Trans. Am. Ent. Soc., xvi, 226.
rosæ Woods. Me. Agr. Expt. Sta., Bull. 273, 174.
rufa Illiger. Coleop. Ind., 1200.
torquata LeConte. Me. Agr. Expt. Sta., Bull. 273, 194.
ulmi Woods. *Ibid.*, Bull. 273, 182.

Crepidodera Chevrolat.

atriventris Melsheimer. Coleop. Ind., 1214. (G.D.)
helxines Linnæus. *Ibid.*, 1214.
modeeri Linnæus. *Ibid.*, 1214.

Epitrix Foudras.

cucumeris Harris. Cucumber flea beetle. Coleop. Ind., 1217.
parvula Fabricius. *Ibid.*, 1218. (G.D.)

Orthaltica Crotch.

copalina Fabricius. Coleop. Ind., 1215.

Mantura Stephens.

floridana Crotch. Coleop. Ind., 1219. (G.D.)

Chætocnema Stephens.

confinis Crotch. Coleop. Ind., 1212.
denticulata Illiger. *Ibid.*, 1210.
minuta Melsheimer. *Ibid.*, 1210.
pulicaria Melsheimer. *Ibid.*, 1212.

Systena Clark.

frontalis Fabricius. Coleop. Ind., 1220.
hudsonias Fœrster. *Ibid.*, 1220.
marginalis Illiger. *Ibid.*, 1221.
tæniata Say. *Ibid.*, 1221.
tæniata var. **blanda** Melsheimer. *Ibid.*, 1221.

Longitarsus Latreille.

insolens Horn. Trans. Am. Ent. Soc., xvi, 286.
melanurus Melsheimer. Coleop. Ind., 1193.

Phyllotreta Foudras.

armoriaceæ Koch. Coleop. Ind., 1198.
bipustulata Fabricius. *Ibid.*, 1198.
chalybeipennis Crotch. Trans. Am. Ent. Soc., xvi, 300.
sinuata Stephens. Coleop. Ind., 1197.
vittata Fabricius. *Ibid.*, 1197.

Dibolia Chevrolat.

borealis Chevrolat. *œrea.* Coleop. Ind., 1222.

Psylliodes Latreille.

punctulata Melsheimer. Coleop. Ind., 1222.

Stenispa Baly.

metallica Fabricius. Coleop. Ind., 1228.

Anoplitis Chapuis.

nervosa Panzer. *Chalepus. Odontota.* Coleop. Ind., 1228.

Chalepus Thunberg.

bicolor Olivier. *Odontota.* Coleop. Ind., 1226.
dorsalis Thunberg. *Ibid.*, 1227.
hornii Smith. *Odontota. Ibid.*, 1227.
notata Olivier. *Odontota.* Trans. Am. Ent. Soc., x, 296.
scapularis Olivier. *Odontota.* Coleop. Ind., 1226.

Baliosus Weise.

rubra Weber. *Chalepus. Odontota.* Coleop. Ind., 1227.

Uroplata Baly.

porcata Melsheimer. Trans. Am. Ent. Soc., x, 294.

Microrhopala Chevrolat.

vittata Fabricius. Coleop. Ind., 1224.
xerene Newman. *Ibid.*, 1225.

Chelymorpha Chevrolat.

cassidea Fabricius. *argus.* Coleop. Ind., 1233.

Chirida Chapuis.

guttata Olivier. *Coptocycla. signifera.* Coleop. Ind., 1232.

Deloyala Chevrolat.

clavata Fabricius. *Coptocycla.* Coleop. Ind., 1232: Rept. Conn. Agr. Expt. Sta., 1918, 110.

Metriona Weise.

bicolor Fabricius. *Coptocycla. aurichalcea.* Coleop. Ind., 1231.
purpurata Boheman. *Coptocycla. Ibid.*, 1232. (K.F.C.)

Family MYLABRIDÆ.

(BRUCHIDÆ.)

Spermophagus Schonherr.

hoffmannseggi Gyllenhal. *robiniæ* Fabricius. Coleop. Ind., 1235.

Bruchus Linnæus.

calvus Horn. Coleop. Ind., 1239.
nigrinus Horn. Trans. Am. Ent. Soc., iv, 327.
obtectus Say. Bean weevil. Coleop. Ind., 1240.
pisorum Linnæus. Pea weevil. *Ibid.*, 1236.
quadrimaculatus Fabricius. Trans. Am. Ent. Soc., iv, 318.

Zabrotes Horn.

subnitens Horn. Trans. Am. Ent. Soc., xii, 158.

Family BRENTIDÆ.

Eupsalis LeConte.

minuta Drury. Oak timber worm. Ins. Aff. Park and Woodl. Trees, 261: Rhyn. N. E. Am., 20.

Family BELIDÆ.

Ithycerus Schonherr.

noveboracensis Fœrster. New York weevil. Rept. Conn. Agr. Expt. Sta., 1908, 845: Rhyn. N. E. Am., 92.

Family PLATYSTOMIDÆ.

(ANTHRIBIDÆ.)

Eurymycter LeConte.

fasciatus Olivier. Rhyn. N. E. Am., 30.

Euparius Schonherr.

marmoreus Olivier. *Cratoparis lunatus.* Rhyn. N. E. Am., 37; Ins. Aff. Park and Woodl. Trees, 499.

Brachytarsus Schonherr.

sticticus Boheman. *variegatus.* Rhy. N. E. Am., 39.
tomentosus Say. *Ibid.,* 40.

Anthribulus LeConte.

rotundatus LeConte. Rhyn. N. E. Am., 41.

Family CURCULIONIDÆ.

Auletes Schonherr.

albovestita Blatchley. Rhyn. N. E. Am., 54.
ater LeConte. *Ibid.,* 53.

Eugnamptus Schonherr.

angustatus Gyllenhal. Rhyn. N. E. Am., 56.
collaris Fabricius var. **nigripes** Melsheimer. *Ibid.,* 56.

Rhynchites Herbst.

æratus Say. Rhyn. N. E. Am., 59.
bicolor Fabricius. Rose weevil. *Ibid.,* 58.
hirtus Fabricius. *Ibid.,* 59.

Attelabus Linnæus.

analis Illiger. Rhyn. N. E. Am., 62.
bipustulatus Fabricius. *Ibid.,* 63. (A.B.C.) (H.B.K.)
nigripes LeConte. *Ibid.,* 62.
rhois Boheman. *Ibid.,* 64.

Pterocolus Schonherr.

ovatus Fabricius. Rhyn. N. E. Am., 65.

Apion Herbst.

coxale Fall. Rhyn. N. E. Am., 77.
griseum Smith. *Ibid.*, 80.
herculanum Smith. *Ibid.*, 89. (A.B.C.) (H.B.K.)
nigrum Herbst. *Ibid.*, 82.
patruele Smith. *Ibid.*, 78.
rostrum Say. *Ibid.*, 81.

Hormorus Horn.

undulatus Uhler. Rept. Conn. Agr. Expt. Sta., 1905, 259: Rhyn. N. E. Am., 100.

Panscopus Schonherr.

erinaceus Say. *Barynotus.* Rhyn. N. E. Am., 104.

Phylexis Schonherr.

rigidus Say. *Barynotus.* Rhyn. N. E. Am., 107.

Otiorhynchus Germar.

ovatus Linnæus. Strawberry crown girdler. Rept. Conn. Agr. Expt. Sta., 1909, 370: Rhyn. N. E. Am., 111.
sulcatus Fabricius. Rept. Conn. Agr. Expt. Sta., 1913, 230: Rhyn. N. E. Am., 111.

Pandeletejus Schonherr.

hilaris Herbst. Rhyn. N. E. Am., 120.

Aphrastus Schonherr.

tæniatus Gyllenhal. Rhyn. N. E. Am., 127.

Polydrusus Germar.

impressifrons Gyllenhal. Rhyn. N. E. Am., 130: N. Y. (Geneva) Agr. Expt. Sta., Tech. Bull. 56.

Scythropus Schonherr.

elegans Couper. Rhyn. N. E. Am., 131.

Barypeithes Duval.

pellucidus Boheman. Rhyn. N. E. Am., 133.

Sitona Schonherr.

flavescens Marsham. Rhyn. N. E. Am., 142.
hispidula Germar. *Ibid.*, 141.

Hypera Germar.

punctatus Fabricius. Clover leaf beetle. Ins. Ill., xxv, 83: Rhyn. N. E. Am., 146.

Phytonomus Schonherr.

meles Fabricius. Rhyn. N. E. Am., 150.
nigrirostris Fabricius. *Ibid.*, 150.
sp.

Listronotus Jekel.

inæqualipennis Boheman. Rhyn. N. E. Am., 156.
latiusculus Boheman. *Ibid.*, 161.
tuberosus LeConte. *Ibid.*, 154.

Hyperodes Jekel.

humilis Gyllenhal. Rhyn. N. E. Am., 176.
solutus Boheman. *Ibid.*, 166.
sp.

Pissodes Germar.

affinis Randall. Rhyn. N. E. Am., 183.
approximatus Hopkins. *Ibid.*, 181.
strobi Peck. White Pine Weevil. *Ibid.*, 180. Rept. Conn. Agr. Expt. Sta., 1919, 144.

Hylobius Germar.

pales Herbst. Proc. Am. Phil. Soc., xv, 140: Ryn. N. E. Am. 186.
confusus Kirby. Rhyn. N. E. Am., 187.

Dorytomus Stephens.

laticollis LeConte. Rhyn. N. E. Am., 195. (A.B.C.) (H.B.K.)
parvicollis Casey. *Ibid.*, 195.

Desmoris LeConte.

constrictus Say. Rhyn. N. E. Am., 206.

Smicronyx Schonherr.

corniculatus Fabricius. Rhyn N. E. Am., 211.

Brachybamus Germar.

electus Germar. Rhyn. N. E. Am., 222.

Endalus Laporte.

ovalis LeConte. Rhyn. N. E. Am., 224. (A.B.C.) (H.B.K.)

Onchylis LeConte.

nigrirostris Boheman. Rhyn. N. E. Am., 226.

Bagous Germar.

magister LeConte. Rhyn. N. E. Am., 231.
nebulosus LeConte. *Ibid.*, 237.
pauxillus Blatchley. *Ibid.*, 238.

Tychius Schonherr.

picirostris Fabricius. Rhyn. N. E. Am., 246.

Otidocephalus Chevrolat.

chevrolatii Horn. *myrmecodes.* Rhyn. N. E. Am., 251.
lævicollis Horn. *Ibid.*, 250.
myrmex Herbst. *myrmecodes* Say. *Ibid.*, 250.

Magdalis Germar.

alutacea LeConte. Rhyn. N. E. Am., 257.
armicollis Say. *Ibid.*, 258.
austera Fall var. substrigata Fall. *Ibid.*, 256.
barbita Say. *Ibid.*, 258.
olyra Herbst. Hickory snout borer. *Ibid*, 259.
salicis Horn. Rhyn. N. E. Am., 260. (A.B.C.) (H.B.K.)

Balaninus Germar.

algonquinus Casey. Lesser chestnut weevil. Rhyn. N. E. Am., 267.
baculi Chittenden. *uniformis. Ibid.*, 271.
caryæ Horn. Hickory nut weevil. *Ibid.*, 265.
confusor Hamilton. Confused acorn weevil. *Ibid.*, 270.
nasicus Say. Mottled acorn weevil. *Ibid.*, 269.
obtusus Blanchard. Hazelnut weevil. *Ibid.*, 272.
pardalis Chittenden. *Ibid.*, 270.
proboscideus Fabricius. Larger chestnut weevil. *Ibid.*, 264.
quercus Horn. Proc. Am. Phil. Soc., 1873, 458.
rectus Say. Common acorn weevil. Rhyn. N. E. Am., 266.

Orchestes Illiger.

canus Horn. Rhyn. N. E. Am., 281.
niger Horn. *Ibid.*, 280.
pallicornis Say. *Ibid.*, 280.
rufipes LeConte. *Ibid.*, 282.

Tachypterellus Cockerell.

quadrigibbus Say. *Anthonomus.* Apple curculio. Rhyn. N. E. Am., 285.

Anthonomopsis Dietz.

mixtus LeConte. Rhyn. N. E. Am., 286.

Anthonomus Germar.

elongatus LeConte. Rhyn. N. E. Am., 315.
musculus Say. *Ibid.*, 302. (A.B.C.) (H.B.K.)
nubilis LeConte. *Ibid.*, 314.
pusillus LeConte. *Ibid.*, 289.
scutellaris LeConte. *Ibid.*, 287.
scutellatus Gyllenhal. *Ibid.*, 307.
signatus Say. Strawberry weevil. *Ibid.*, 300.
suturalis LeConte. *Ibid.*, 297.

Prionomerus Schonherr.

calceatus Say. Rhyn. N. E. Am., 322.

Piazorhinus Schonherr.

scutellaris Say. Rhyn. N. E. Am., 323.

Gymnetron Schonherr.

teter Fabricius. Rhyn. N. E. Am., 326.

Miarus Stephens.

hispidulus LeConte. Rhyn. N. E. Am., 326.
puritanus Casey. *Ibid.*, 327.

Stephanocleonus Motschulsky.

plumbeus LeConte. Rhyn. N. E. Am., 328.

Cleonus Schonherr.

calandroides Randall. Rhyn. N. E. Am., 330.

Lixus Fabricius.

concavus Say. Rhubarb weevil or curculio. Rhyn. N. E. Am., 337.
musculus Say. *Ibid.*, 336. (G.D.)
rubellus Randall. *Ibid.*, 334.

Læmosaccus Schonherr.

plagiatus Say. Rhyn. N. E. Am., 346. (A.B.C.) (H.B.K.)

Baris Germar.

scolopacea Germar. Rhyn. N. E. Am., 357.
umbilicata LeConte. *Ibid.*, 350.

Onychobaris LeConte.

pectorosa LeConte. Rhyn. N. E. Am., 366.

Note: — **Diorymellus laevimargo** Champion, a small black weevil, infests orchids in greenhouses.

Madarellus Casey.

undulatus Say. Rhyn. N. E. Am., 367.

Pseudobaris LeConte.

nigrina Say. Rhyn. N. E. Am., 374.

Centrinus Schonherr.

perscitus Herbst. Rhyn. N. E. Am., 383.
picumnus Herbst. *Ibid.*, 380.

Odontocorynus Schonherr.

salebrosus Casey. Rhyn. N. E. Am., 386.
scutellum-album Say. *Ibid.*, 385.

Nicentrus Casey.

linecollis Boheman. *Centrinus.* Rhyn. N. E. Am., 390.

Idiostethus Casey.

subcalvus LeConte. Rhyn. N. E. Am., 404.
tubulatus Say. *Stethobaris. Ibid.*, 404.

Stethobaris LeConte.

ovata LeConte. Rhyn. N. E. Am., 407.

Cylindrocopturus Heller.

binotatus LeConte. *Copturodes. Copturus.* Rhyn. N. E. Am., 420.
quercus Say. *Copturodes. Copturus. Ibid.*, 421.

Acoptus LeConte.

suturalis LeConte. Rhyn. N. E. Am., 423. (A.B.C.) (H.B.K.)

Mononychus Germar.

vulpeculus Fabricius. Rhyn. N. E. Am., 426.

Acanthoscelis Dietz.*

acephalus Say. *Falciger. Cœliodes.* Rhyn. N. E. Am., 431.

Auleutes Dietz.

asper LeConte. Rhyn. N. E. Am., 432. (C.W.L.)
nebulosus LeConte. *Ibid.*, 435.
tenuipes LeConte. *Ibid.*, 433.

Acallodes LeConte.

ventricosus LeConte. Rhyn. N. E. Am., 437.

Cœliodes Schonherr.

acephalus Say. Proc. Am. Phil. Soc., xv, 269.
flavicaudis Boheman. Rhyn. N. E. Am., 438.

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* See also appendix.

Ceutorhynchus Germar.*

rapæ Gyllenhal. *affluentus.* Rhyn. N. E. Am., 442.
septentrionalis Gyllenhal. *Ibid.*, 452.

Cœlogaster Schonherr.

zimmermanni Gyllenhal. Rhyn. N. E. Am., 455.

Pelenomus Thomson.

sulcicollis Fabricius. Rhyn. N. E. Am., 457.

Rhinonchus Schonherr.

pyrrhopus Boheman. Rhyn N. E. Am., 461.

Conotrachelus Schonherr.

albicinctus LeConte. Rhyn. N. E. Am., 469. (A.B.C.) (H.B.K.)
anaglypticus Say. *Ibid.*, 480.
aratus Germar. *Ibid.*, 473.
cratægi Walsh. Quince curculio. *Ibid.*, 474: Cornell Agr. Expt. Sta., Bull. 148.
elegans Say. Rhyn. N. E. Am., 472.
geminatus LeConte. *Ibid.*, 478.
juglandis LeConte. Walnut curculio. *Ibid.*, 468: Rept. Conn. Agr. Expt. Sta., 1912, 240.
nenuphar Herbst. Plum curculio. Rhyn. N. E. Am., 469: Rept. Conn. Agr. Expt. Sta., 1904. 219.
posticatus Boheman. Rhyn. N. E. Am., 477.
seniculus LeConte. *Ibid.*, 472. (A.B.C.) (H.B.K.)

Ryssematus Chevrolat.

æqualis Horn. Rhyn. N. E. Am., 484.
lineaticollis Say. *Ibid.*, 484.

Tyloderma Say.

ærea Say. Rhyn. N. E. Am., 493.
foveolata Say. *Ibid.*, 491.
nigra Casey. *Ibid.*, 493.
punctata Casey. *Ibid.*, 494.

Apteromechus Faust.

ferratus Say. Rhyn. N. E. Am., 506.

Cryptorhynchus Illiger.

bisignatus Say. *Eubulus.* Rhyn. N. E. Am., 509.
fuscatus LeConte. *Ibid.*, 509.
lapathi Linnæus. Poplar or willow curculio. *Ibid.*, 510.
parochus Herbst. *Ibid.*, 508.
tristis LeConte. *Ibid.*, 514. (A.B.C.)

* See also appendix.

Dryophthorus Schonherr.

americanus Bedel. *corticalis.* Rhyn. N. E. Am., 524.

Himatinum Cockerell.

conicum LeConte. *Himatium.* Rhyn. N. E. Am., 527. (C.C.)

Cossonus Clairville.

concinnus Boheman. Rhyn. N. E. Am., 531. (G.D.)
corticola Say. *Ibid.*, 532.
impressifrons Boheman. *Ibid.*, 531. (H.L.J.)
platalea Say. *Ibid.*, 530.

Stenoscelis Wollaston.

brevis Boheman. Rhyn. N. E. Am., 545.

Rhodobænus LeConte.

tredecimpunctatus Illiger. Rhyn. N. E. Am., 550.

Sphenophorus Schonherr.

æqualis Gyllenhal. Rhyn. N. E. Am., 553.
callosus Olivier. *sculptilis. Ibid.*, 567.
parvulus Gyllenhal. *Ibid.*, 563.
pertinax Olivier. *Ibid.*, 556.
setiger Chittenden. *Ibid.*, 557.
venatus Say. *placidus. Ibid.*, 571.
zeæ Walsh. *Ibid.*, 566.

Calendra Clairville.

granaria Linnæus. Grain weevil. Rhyn. N. E. Am., 574.
oryzæ Linnæus. Rice weevil. *Ibid.*, 575.

Family SCOLYTIDÆ.

Scolytus Geoffroy.

Eccoptogaster.

quadrispinosus Say. Hickory bark beetle. Can. Bark Beetles, ii, 52.
rugulosus Ratzeburg. Fruit bark beetle. Shot-hole borer. *Ibid.*, 52.

Chramesus LeConte.

icoriæ LeConte. Hickory twig borer. Can. Bark Beetles, ii, 58.

Phthorophlœus Rey.

frontalis Zimmerman. Can. Bark Beetles, ii, 59.

Dendroctonus Erichson.

terebrans Olivier. Turpentine bark beetle. Can. Bark Beetles, ii, 64.

valens LeConte. *Ibid.*, 63.

Phlœosinus Chapuis.

dentatus Say. Red cedar bark beetle. Can. Bark Beetles, ii, 68.

Leperisinus Reitter.

aculeatus Say. *Hylesinus.* Ash timber beetle. Can. Bark Beetles, ii, 72.

Hylastinus Bedel.

obscurus Marsham. Can. Bark Beetles, ii, 73.

Hylurgopinus Swaine.

rufipes Eichhoff. *Hylastes.* Can. Bark Beetles, ii, 74.

Hylurgops LeConte.

pinifex Fitch. *Hylastes.* Can. Bark Beetles, ii, 81.

Micracis LeConte.

suturalis LeConte. Rhyn. N. E. Am., 647.

Ptercyclon Eichhoff.

Monarthrum.

fasciatum Say. Can. Bark Beetles, ii, 86.

mali Fitch. *Ibid.*, 87.

Hypothenemus Westwood.

hispidulus LeConte. Rhyn. N. E. Am., 596.

Stephanoderes Eichhoff.

dissimilis Zimmerman. Rhyn. N. E. Am., 603.

sp.

Pityophthorus Eichhoff.

canadensis Swaine. Can. Bark Beetles, ii, 97.

puberulus LeConte. *Ibid.*, 95.

pulicarius Zimmerman. *Ibid.*, 95.

sp.

sp.

Pityogenes Bedel.

hopkinsi Swaine. Can. Bark Beetles, ii, 106.

Ips DeGeer.

grandicollis Eichhoff. Can. Bark Beetles, ii, 113.
pini Say. *Ibid.*, 115.
sp.

Orthotomicus Ferrari.

cælatus Eichhoff. *Tomicus. Xyleborus.* Can. Bark Beetles, ii, 121.

Pityokteines Fuchs.

sparsus LeConte. *Xyleborus. Tomicus. Pityogenes.* Can. Bark Beetles, ii, 123.

Anisandrus Ferrari.

pyri Peck. *Xyleborus dispar.* Can. Bark Beetles, ii, 124.
sp.

Xyleborus Eichhoff.

celsus Eichhoff. Hickory timber beetle. Can. Bark Beetles, ii, 126.

Order STREPSIPTERA.*

Family STYLOPIDÆ.

Stylops Kirby.

vicinæ Pierce. U. S. Nat. Mus., Bull. No. 66, 110.

Family XENIDÆ.

Acroschismus Pierce.

wheeleri Pierce. *Xenos peckii* Brues. U. S. Nat. Mus., Bull. No. 66, 129.

Schistosiphon Pierce.

peckii Kirby. *Xenos.* U. S. Nat. Mus., Bull No. 66, 133.

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* This order has usually been included in the Coleoptera, and is therefore not given in the table for the separation of the orders, Bulletin 16, page 34.

Order HYMENOPTERA.

Ants, bees, wasps, etc.

Suborder PHYTOPHAGA.

Family XYELIDÆ.

Macroxyela Kirby.

infuscata Norton. Conn. Geol. Nat. Hist. Surv., Bull. 22, 32.

Family PAMPHILIIDÆ.

Itycorsia Konow.

albomarginata Cresson. *Lyda.* Conn. Geol. Nat. Hist. Surv., Bull. 22, 35.

angulata MacGillivray. *Ibid.,* Bull. 22, 34. (A.B.C.)

luteomaculata Cresson. *Ibid.,* Bull. 22, 35, (R.H.)

ochrocera Norton. *Ibid.,* Bull. 22, 34.

zappei Rohwer. Proc. U. S. Nat. Mus., 57, 209.

Cænolyda Konow.

semidea Cresson. *Lyda.* Conn. Geol. Nat. Hist. Surv., Bull. 22, 36.

Neurotoma Konow.

fasciata Norton. *Lyda.* Conn. Geol. Nat. Hist. Surv., Bull. 22, 35. (E.N.)

Pamphilius Latreille.

dentatus MacGillivray. Conn. Geol. Nat. Hist. Surv., Bull. 22, 38.

ocreatus Say. *Lyda. Ibid.,* Bull. 22, 37.

persicus MacGillivray. Peach sawfly. *Ibid.,* Bull. 22, 38: Rept. Conn. Agr. Expt. Sta., 1907, 285.

rileyi Cresson. Trans. Am. Ent. Soc., viii, 32.

Anoplolyda Costa.

luteicornis Norton. *Lyda.* Conn. Geol. Nat. Hist. Surv., Bull. 22, 40. (E.N.)

pallimacula Norton. *Lyda. Ibid.,* Bull. 22, 40. (E.N.)

rufofasciatus Norton. *Lyda. Ibid.,* Bull. 22, 41. (E.N.)

scripta Say. *Lyda. Ibid.,* Bull. 22, 40.

Family TENTHREDINIDÆ.*

Diprion Schrank.

simile Hartig. *Lophyrus.* Jour. Econ. Ent., viii, 370: Conn. Geol. Nat. Hist. Surv., Bull. 22, 761.

Neodiprion Rohwer.

abietis Harris. *Lophyrus.* Conn. Geol. Nat. Hist. Surv., Bull 22, 44.
lecontei Fitch. *Lophyrus. Ibid.,* Bull. 22, 44.
pinetum Norton. *abbotti. Lophyrus. Ibid.,* Bull., 22, 44.
pinus-rigida Norton. *Lophyrus. Ibid.,* Bull. 22, 44.
sp.
sp.

Hemitaxonus Ashmead.

dubitatus Norton. *Taxonus.* Conn. Geol. Nat. Hist. Surv., Bull. 22, 46.

Epitaxonus MacGillivray.

albidopictus Norton. *Taxonus.* Conn. Geol. Nat. Hist. Surv., Bull. 22, 46.

Taxonus Hartig.

nigrisomus Norton. Conn. Geol. Nat. Hist. Surv., Bull. 22, 47.

Monostegia Costa.

martini MacGillivray. Conn. Geol. Nat. Hist. Surv., Bull. 22, 47.

Empria LePeletier.

Pœcilostoma Dahlbom.

calda MacGillivray. Conn. Geol. Nat. Hist. Surv., Bull. 22, 51.
candidula MacGillivray. *Ibid.,* Bull. 22, 54.
cariosa MacGillivray. *Ibid.,* Bull. 22, 54.
casca MacGillivray. *Ibid.,* Bull. 22, 53.
casta MacGillivray. *Ibid.,* Bull. 22, 52.
costata MacGillivray. *Ibid.,* Bull. 22, 51.
evecta MacGillivray. *Ibid.,* Bull. 22, 54.
ignota Norton. *Monostegia. Ibid.,* Bull. 22, 53.
maculata Norton. *Harpiphorus. Ibid.,* Bull. 22, 53.
sp.

* See also appendix.

Emphytus Klug.

apertus Norton. Conn. Geol. Nat. Hist. Surv., Bull. 22, 56.

cinctipes Norton. *Ibid.*, Bull. 22, 56.

gillettii Mac Gillivray. *Ibid.*, Bull. 22, 57.

inornatus Say. *Ibid.*, Bull. 22, 56.

mellipes Norton. *Ibid.*, Bull. 22, 56.

Emphytina Rohwer.

vanduzeei Rohwer. Proc. U. S. Nat. Mus., 49, 205.

Parataxonus MacGillivray.

erythrogastra Rohwer. Proc. U. S. Nat. Mus., 41, 408.

multicolor Norton. *Taxonus.* Conn. Geol. Nat. Hist. Surv., Bull. 22, 57.

Eriocampa Hartig.

rotunda Norton. *Sciapteryx.* Conn. Geol. Nat. Hist. Surv., Bull. 22, 58.

Monosoma MacGillivray.

inferentia Norton. *Pœcilostoma.* Conn. Geol Nat. Hist. Surv., Bull. 22, 59.

Macremphytus MacGillivray.

semicornis Say. *Emphytus. Harpiphorus.* Conn. Geol. Nat. Hist. Surv., Bull. 22, 59.

tarsatus Say. *Emphytus. Harpiphorus. Ibid.*, Bull. 22, 61.

varianus Norton. *Emphytus. Harpiphorus. Ibid.*, Bull. 22, 60.

Strongylogastroidea Ashmead.

apicalis Norton. *Allantus. Strongylogaster.* Conn. Geol. Nat. Hist. Surv., Bull. 22, 63.

epicera Say. *Allantus. Strongylogaster. Ibid.*, Bull. 22, 63.

mellosa Norton. *Allantus. Strongylogaster. Ibid.*, Bull. 22, 62.

rufocincta Norton. *Allantus. Strongylogaster. Ibid.*, Bull. 22, 63.

terminalis Say. *Allantus. Strongylogaster. Ibid.*, Bull. 22, 62.

unicincta Norton. *Taxonus. Ibid.*, Bull. 22, 64 (E.N.)

Dimorphopteryx Ashmead.

pinguis Norton. *Strongylogaster.* Conn. Geol. Nat. Hist. Surv., Bull. 22, 64.

Selandria Leach.

flavipes Norton. Conn. Geol. Nat. Hist. Surv., Bull. 22, 66.

Thrinax Konow.

impressatus Provancher. *Strongylogaster.* Conn. Geol. Nat. Hist. Surv., Bull. 22, 67.

Strongylogaster Dahlbom.

annulosus Norton. Conn. Geol. Nat. Hist. Surv., Bull. 22, 68.
longulus Norton. *Ibid.*, Bull. 22, 67.
luctuosus Provancher. Trans. Am. Ent. Soc., xxii, 310.
tacitus Say. *Allantus*. Conn. Geol. Nat. Hist. Surv., Bull. 22, 68.
sp.

Dolerus Jurine.

abdominalis Norton. Conn. Geol. Nat. Hist. Surv., Bull. 22, 74.
apricus Norton. *Ibid.*, Bull. 22, 72.
aprilis Norton. *Ibid.*, Bull. 22, 74.
bicolor Beauvois. *Ibid.*, Bull. 22, 72.
collaris Say. *Ibid.*, Bull. 22, 73. (A.B.C.)
colosericeus MacGillivray. *Ibid.*, Bull. 22, 70.
conjugatus MacGillivray. *Ibid.*, Bull. 22, 73.
dysporus MacGillivray. *Ibid.*, Bull. 22, 73.
inspiratus MacGillivray. *Ibid.*, Bull. 22, 72.
luctatus MacGillivray. Can. Ent., xl, 127.
monosericeus MacGillivray. Conn. Geol. Nat. Hist. Surv., Bull. 22, 70.
refugus MacGillivray. *Ibid.*, Bull. 22, 71.
sericeus Say. *Ibid.*, Bull. 22, 69.
similis Norton. *Ibid.*, Bull. 22, 74. (E.N.)
tectus MacGillivray. *Ibid.*, Bull. 22, 70.
unicolor Beauvois. *Ibid.*, Bull. 22, 73.
versus Norton. *Ibid.*, Bull. 22, 75. (A.E.V.)
sp.

Loderus Konow.

albifrons Norton. Conn. Geol. Nat. Hist. Surv., Bull. 22, 76.

Endelomyia Ashmead.

æthiops Fabricius. *Caliroa. Monostegia rosæ*. Rose sawfly. Conn. Geol. Nat. Hist. Surv., Bull. 22, 77.

Caliroa Costa.

cerasi Linnæus. *Eriocampoides limacina*. Pear and cherry slug. Conn. Geol. Nat. Hist. Surv., Bull. 22, 77.
fasciata Norton. *Ibid.*, Bull. 22, 79.
obsoleta Norton. *Ibid.*, Bull. 22, 78.
quercus-alba Norton. *Ibid.*, Bull. 22, 78. (E.N.)

Pachyprotasis Hartig.

rapæ Linnæus. *omega*. Conn. Geol. Nat. Hist. Surv., Bull. 22, 81. (E.N.)

Lagium Konow.

atroviolaceum Norton. *Tenthredopsis*. Conn. Geol. Nat. Hist. Surv., Bull. 22, 81.

atroviolaceum var. **tardum** Norton. *Ibid.*, Bull. 22, 81.

cinctulum Norton. *Ibid.*, Bull. 22, 81.

Tenthredopsis Costa.

semilutea Norton. Conn. Geol. Nat. Hist. Surv., Bull. 22, 82. (E. N.)

Rhogogastera Konow.

evansii Harrington. Conn. Geol. Nat. Hist. Surv., Bull. 22, 83.

Tenthredo Linnæus.

angulifera Norton. Conn. Geol. Nat. Hist. Surv., Bull. 22, 88. (E.N.)

flavomarginis Norton. *Ibid.*, Bull. 22, 90. (E.N.)

grandis Norton. *Ibid.*, Bull. 22, 84. (E.N.)

formosa Norton. *Ibid.*, Bull. 22, 87.

lobata Norton. *Ibid.*, Bull. 22, 88.

lobata var. **maculosa** Smulyan. Can. Ent., xlvii, 324. (W.E.B.)

rufipes Say. Conn. Geol. Nat. Hist. Surv., Bull. 22, 91. (A.B.C.)

rufopecta Norton. *Ibid.*, Bull. 22, 86.

verticalis Say. *Ibid.*, Bull. 22, 86.

sp.

Macrophya Dahlbom.

alba MacGillivray. Conn. Geol. Nat. Hist. Surv., Bull. 22, 94. (A.B.C.)

albomaculata Norton. *Ibid.*, Bull 22, 97. (E.N.)

bilineata MacGillivray. *Ibid.*, Bull. 22, 96.

cassandra Kirby. List. Hym. Brit. Mus., i, 273, pl. 10, fig. 13.

epinota Say. *Ibid.*, Bull 22, 93.

externa Say. *Ibid.*, Bull. 22, 96.

exterriformis Rohwer. Proc. U. S. Nat. Mus., 43, 220.

fascialis Norton. Conn. Geol. Nat. Hist. Surv., Bull. 22, 99.

flavicoxa Norton. *Ibid.*, Bull. 22, 95.

formosa Klug. *Ibid.*, Bull., 22, 98.

fuliginea Norton. *Ibid.*, Bull. 22, 96.
goniphora Say. *Ibid.*, Bull. 22, 98.
incerta Norton. *Ibid.*, Bull. 22, 96 (E. N.)
intermedia Norton. *Ibid.*, Bull. 22, 98. (E.N.)
lineata Norton. *Ibid.*, Bull. 22, 95.
minuta MacGillivray. *Ibid.*, Bull. 22, 97.
nigra Norton. *Ibid.*, Bull. 22, 97.
pannosa Say. *Ibid.*, Bull. 22, 95.
proximata Norton. *Ibid.*, Bull. 22, 95. (E.N.)
pulchella Klug. *Ibid.*, Bull. 22, 94. (E.N.)
succincta Cresson. *Ibid.*, Bull. 22, 98.
tibiator Norton. *Ibid.*, Bull. 22, 96.
trisyllaba Say. *Ibid.*, Bull. 22, 98.
trosula Norton. *Ibid.*, Bull. 22, 93.
varia Norton. *Ibid.*, Bull. 22, 99. (E.N.)
zabriskei Rohwer. Proc. U. S. Nat. Mus., 43, 218.

Allantus Jurine.

basilaris Say. Conn. Geol. Nat. Hist. Surv., Bull. 22, 101.
dubius Norton. *Ibid.*, Bull. 22, 102.

Abia Leach.

inflata Norton. *Zarœa.* Conn. Geol. Nat. Hist. Surv., Bull. 22, 102.

Trichiosoma Leach.

crassum Kirby. Conn. Geol. Nat. Hist. Surv., Bull. 22, 103. (A.B.C.)
triangulum Kirby. *Ibid.*, Bull. 22, 103.

Cimbex Olivier.

americana Leach. Conn. Geol. Nat. Hist. Surv., Bull. 22, 104.
americana var. decimaculata Norton. *Ibid.*, Bull. 22, 104.
americana var. laportei LePeletier. *Ibid.*, Bull. 22, 104.
americana var. nortoni MacGillivray. *Ibid.*, Bull. 22, 104.

Hoplocampa Hartig.

halcyon Norton. Conn. Geol. Nat. Hist. Surv., Bull. 22, 105. (A.B.C.)

Craterocercus Rohwer.

quercivorus Rohwer. Proc. Wash. Ent. Soc., 20, 164.

Mesoneura Hartig.

parva Norton. *Dineura.* Conn. Geol. Nat. Hist. Surv., Bull. 22, 107. (E.N.)

Priophorus Dahlbom.

acericaulis MacGillivray. Maple leaf stem borer. Ent. News, xvii, 313; Conn. Geol. Nat. Hist. Surv., Bull. 22, 109.

æqualis Norton. *Cladius.* Conn. Geol. Nat. Hist. Surv., Bull. 22, 109. (E.N.)

simplicicornis Norton. *Ibid.,* Bull. 22, 109.

Cladius Illiger.

pectinicornis Fourcroy. *isomerus.* Bristly rose slug. Conn. Geol. Nat. Hist. Surv., Bull. 22, 110.

Trichiocampus Hartig.

viminalis Fallen. Conn. Geol. Nat. Hist. Surv., Bull. 22, 110.

Diphadnus Hartig.

appendiculatus Hartig. *Pristiphora grossularia.* Conn. Geol. Nat. Hist. Surv., Bull. 22, 112.

californicus Marlatt. *Ibid.,* Bull. 22, 113.

proximatus Norton. *Nematus. Ibid.,* Bull. 22, 113.

Pristiphora Latreille.

betulavora Rohwer. Proc. U. S. Nat. Hist. Mus., 57, 219.

bivittata Norton. Conn. Geol. Nat. Hist. Surv., Bull. 22, 114.

luteola Norton. *Ibid.,* Bull. 22, 114.

sycophanta Walsh. *tibialis. Ibid.,* Bull. 22, 113.

Lygæonematus Konow.

erichsoni Hartig. Larch sawfly. Conn. Geol. Nat. Hist. Surv., Bull. 22, 115.

Pachynematus Konow.

affinis Marlatt. Conn. Geol. Nat. Hist. Surv., Bull. 22, 117.

corniger Norton. *Ibid.,* Bull. 22, 118.

extensicornis Norton. *Ibid.,* Bull. 22, 116.

nigritus Norton. *Ibid.,* Bull. 22, 111. (E.N.)

rufocinctus MacGillivray. *Ibid.,* Bull. 22, 117. (A.B.C.)

subalbatus Norton. *Ibid.,* Bull. 22, 118.

sp.

sp.

Nematus Jurine.

chloreus Norton. Conn. Geol. Nat. Hist. Surv., Bull. 22, 121. (E.N.)

longicornis Say. *longulicornis* Norton. (*Pteronus?*) *Ibid.,* Bull. 22, 111. (E.N.)

Crœsus Leach.

latitarsus Norton. Conn. Geol. Nat. Hist. Surv., Bull. 22, 121.

Amauronematus Konow.

concolor Norton. *Nematus.* Conn. Geol. Nat. Hist. Surv., Bull. 22, 122. (E.N.)

semirufus Kirby. *fulvipes* Norton. *Nematus. Ibid.,* Bull. 22, 123. (E.N.)

luteotergum Norton. *Nematus. Ibid.,* Bull. 22, 123. (E.N.)

sp.

Pteronidea Rohwer.*

amelanchieridis Rohwer. Proc. U. S. Nat. Mus., 57, 215.

carpini Marlatt. Conn. Geol. Nat. Hist. Surv., Bull. 22, 129. (C.R.E.)

corylus Cresson. *Ibid.,* Bull. 22, 127. (C.R.E.)

integra Say. *Nematus integer. Ibid.,* Bull. 22, 131.

limbata Cresson. *Ibid.,* Bull. 22, 125.

longicornis Marlatt. *Ibid.,* Bull. 22, 132.

mendica Walsh. *Ibid.,* Bull. 22, 131.

populi Marlatt. *Ibid.,* Bull. 22, 128. (A.B.C.)

ribesi Scopoli. *Nematus ventricosus.* Currant worm. *Ibid.,* Bull. 22, 128.

thoracica Harrington. *Ibid.,* Bull. 22, 129.

trilineata Norton. *Ibid.,* Bull. 22, 130.

ventralis Say. *Ibid.,* Bull. 22, 133.

vertebrata Say. *Ibid.,* Bull. 22, 131.

sp.

Pontania Costa.

desmodioides Walsh. Conn. Geol. Nat. Hist. Surv., Bull. 22, 140.

hyalina Norton. *Ibid.,* Bull. 22, 137.

pisum Walsh. *Ibid.,* Bull. 22, 139. (A.B.C.)

Euura Newman.

orbitalis Norton. Conn. Geol. Nat. Hist. Surv., Bull. 22, 141.

salicicola Smith. *Ibid.,* Bull. 22, 141.

Hypargyricus MacGillivray.

fumipennis Norton. *Monophadnus.* Conn. Geol. Nat. Hist. Surv., Bull. 22, 145.

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* See also appendix.

Isodyctium Ashmead.

atratum MacGillivray. Conn. Geol. Nat. Hist. Surv., Bull. 22, 146.

caryicola Dyar. *Ibid.*, Bull. 22, 145.

Periclista Konow.

plesia Rohwer. Proc. U. S. Nat. Mus. 57, 211.

Tomostethus Konow.

bardus Say. *Selandria.* Conn. Geol. Nat. Hist. Surv., Bull. 22, 148.

inhabilis Norton. *Selandria. Ibid.*, Bull. 22, 148.

Monophadnus Hartig.

bipunctatus MacGillivray. Conn. Geol. Nat. Hist., Surv., Bull. 22, 149.

tiliæ Norton. *Selandria.* Ibid., Bull. 22, 149. (E.N.)

Paracharactus MacGillivray.

rudis Norton. *Selandria.* Conn. Geol. Nat. Hist. Surv., Bull. 22, 150. (E.N.)

Phymatocera Dahlbom.

rufula Norton. Conn. Geol. Nat. Hist. Surv., Bull. 22, 150.

Monophadnoides Ashmead.

collaris MacGillivray. Conn. Geol. Nat. Hist. Surv., Bull. 22, 152.

consobrinus MacGillivray. *Ibid.*, Bull. 22, 152.

coracinus MacGillivray. *Ibid.*, Bull. 22, 152.

rubi Harris. *Selandria. Ibid.*, Bull. 22, 151.

Aphanisus MacGillivray.

odoratus MacGillivray. Conn. Geol. Nat. Hist., Surv., Bull. 22, 154.

Blennocampa Hartig.

sp.

Erythraspides Ashmead.

caryæ Norton. *Selandria.* Conn. Geol. Nat. Hist. Surv., Bull. 22, 156.

pygmæus Say. *Selandria vitis. Ibid.*, Bull. 22, 156.

Metallus Forbes.

rubi Forbes. Conn. Geol. Nat. Hist. Surv., Bull. 22, 160. (H.L.V.)

Atomacera Say.

debilis Say. Conn. Geol. Nat. Hist. Surv., Bull. 22, 160.
decepta Rohwer. Proc. U. S. Nat. Mus., 41, 382.
ruficollis Norton. Conn. Geol. Nat. Hist. Surv., Bull. 22, 160.

Arge Schrank.

Hylotoma Latreille.

abdominalis Leach. Conn. Geol. Nat. Hist. Surv., Bull. 22, 161.
clavicornis Fabricius. *Ibid.*, Bull. 22, 161.
dulciaria Say. *Ibid.*, Bull. 22, 161.
erythrosoma Leach. Trans. Am. Ent. Soc., i, 72.
humeralis Beauvois. Conn. Geol. Nat. Hist. Surv., Bull. 22, 162.
macleayi Leach. *Ibid.*, Bull. 22, 161.
rubiginosa Beauvois. *Ibid.*, Bull. 22, 162.
rubra Klug. *Ibid.*, Bull. 22, 163. (J.A.H.)
salicis Rohwer. *Hylotoma pectoralis*. Proc. U. S. Nat. Mus., 43, 206.
scapularis Klug. Conn. Geol. Nat. Hist. Surv., Bull. 22, 162.
sphinx Kirby. *Ibid.*, Bull. 22, 162.
virescens Klug. *Ibid.*, Bull. 22, 161.
xanthothorax Leach. List. Hym. Brit. Mus., 1, 69, pl. 6, fig. 1.
sp.
sp.

Sterictiphora Billberg.

johnsoni MacGillivray. Can. Ent., xl, 403.

Schizocerus LePeletier.

privatus Norton. Conn. Geol. Nat. Hist. Surv., Bull. 22, 164. (J.A.H.)
zabriskei Ashmead. *Ibid.*, Bull. 22, 164.

Acordulecera Say.

dorsalis Say. Conn. Geol. Nat. Hist. Surv., Bull. 22, 166. (E.N.)
maura MacGillivray. *Ibid.*, Bull. 22, 166. (H.L.V.)
media MacGillivray. *Ibid.*, Bull. 22, 165.
mixta MacGillivray. *Ibid.*, Bull. 22, 166.
saginata Provancher. *Ibid.*, Bull. 22, 167.
sp.
sp.

Family XIPHYDRIIDÆ.

Xiphydria Latreille.

attenuata Norton. Conn. Geol. Nat. Hist. Surv., Bull. 22, 168. (W.H.P.)

maculata Say. *Ibid.*, Bull. 22, 168.

Family SIRICIDÆ.

Sirex Linnæus.

cyaneus Fabricius. Conn. Geol. Nat. Hist. Surv., Bull. 22, 170. (E.N.)

Urocerus Geoffroy.

albicornis Fabricius. Conn. Geol. Nat. Hist. Surv., Bull. 22, 171.

cressoni Norton. *Ibid.*, Bull. 22, 171.

flavicornis Fabricius. *Ibid.*, Bull. 22, 171.

Tremex Jurine.

columba Linnæus. Pigeon horn-tail. Conn. Geol. Nat. Hist. Surv., Bull. 22, 172.

Family CEPHIDÆ.

Janus Stephens.

abbreviatus Say. Conn. Geol. Nat. Hist. Surv., Bull. 22, 173.

bimaculatus Norton. *Cephus. Phyllœcus. Ibid.*, Bull. 22, 173.

integer Norton. *flaviventris.* Currant stem girdler. *Ibid.*, Bull. 22, 173.

Adirus Konow.

trimaculatus Say. *Phyllœcus.* Conn. Geol. Nat. Hist. Surv., Bull. 22, 173. (E.N.)

Family ORYSSIDÆ.

Oryssus Latreille.

sayi Westwood. Conn. Geol. Nat. Hist. Surv., Bull. 22, 175.

sayi var. **terminalis** Newman. *Ibid.*, Bull. 22, 175.

Suborder HETEROPHAGA.

Family VIPIONIDÆ.

Opius Wesmael.

exareolatus Viereck. Conn. Geol. Nat. Hist Surv., Bull. 22, 183.

novæangliæ Viereck. *Ibid.*, Bull. 22, 183.

pequodorum Viereck. *Ibid.*, Bull. 22, 183.

Cardiochiles Nees.

viator Say. Conn. Geol. Nat. Hist. Surv., Bull. 22, 183. (A.B.C.)

Apanteles Fœrster.

agricola Viereck. (Protapanteles). Conn. Geol. Nat. Hist. Surv., Bull. 22, 186.

algonquinorum Viereck. (Protapanteles). *Ibid.*, Bull. 22, 188.

augustus Viereck. (Protapanteles). *Ibid.*, Bull. 22, 187.

cacæciæ Riley. Trans. St. Louis Acad. Sci., iv, pt. 2, 306.

carpatus Say. (Apanteles). Conn. Geol. Nat. Hist. Surv., Bull. 22, 191.

clisiocampæ Ashmead. N. H. Agr. Expt. Sta., Tech. Bull. 6, 229.

conanchetorum Viereck. (Apanteles). Conn. Geol. Nat. Hist. Surv., Bull. 22, 191.

congregatus Say. (Protapanteles). *Ibid.*, Bull. 22, 188.

flaviconche Riley. (Protapanteles). *Ibid.*, Bull. 22, 186.

forbesi Viereck. (Apanteles). *Ibid.*, Bull. 22, 191.

gelechiæ Viereck. (Apanteles). *Ibid.*, Bull. 22, 190.

hesperidivorus Viereck. (Protapanteles). *Ibid.*, Bull. 22, 187.

housatannuckorum Viereck. (Apanteles). *Ibid.*, Bull. 22, 189.

hyphantriæ Riley. *Ibid.*, Bull. 22, 193.

lacteicolor Viereck. (Apanteles). *Ibid.*, Bull. 22, 191.

læviceps Ashmead. (Protapanteles). *Ibid.*, Bull. 22, 188.

lanificus Viereck. (Protapanteles). *Ibid.*, Bull. 22, 188.

limenitidis Riley. (Protapanteles). *Ibid.*, Bull. 22, 186.

limenitidis var. (Protapanteles). *Ibid.*, Bull. 22, 187.

lunatus (Packard) Weed. (Protapanteles). *Ibid.*, Bull. 22, 186.

maquinnai Viereck. (Apanteles). *Ibid.*, Bull. 22, 190.

melanopus Viereck. (Apanteles). *Ibid.*, Bull. 22, 190.

miantonomoi Viereck. (Apanteles). *Ibid.*, Bull. 22, 190.

militaris Walsh. (Protapanteles). *Ibid.*, Bull. 22, 189.

nemoriæ Ashmead. (Protapanteles). *Ibid.*, Bull. 22, 186.

ninigretorum Viereck. (Apanteles). *Ibid.*, Bull. 22, 191.
nipmuckorum Viereck. (Apanteles). *Ibid.*, Bull. 22, 191.
obscuricornis Viereck. (Protapanteles). *Ibid.*, Bull. 22, 186.
oxyacanthoidis Viereck. (Protapanteles). *Ibid.*, Bull. 22, 187.
pequodorum Viereck. (Apanteles). *Ibid.*, Bull. 22, 190.
podunkorum Viereck. (Stenopleura). *Ibid.*, Bull. 22, 188. (D.J.C.)
pyraustæ Viereck. (Protapanteles). *Ibid.*, Bull. 22, 188.
radiatus Ashmead. (Protapanteles). *Ibid.*, Bull. 22, 189.
recurvariæ Ashmead. (Apanteles). *Ibid.*, Bull. 22, 191.
tischeriæ Viereck. *Ibid.*, Bull. 22, 191.
trachynotus Viereck. (Apanteles). *Ibid.*, Bull. 22, 191.
winkleyi Viereck. (Protapanteles). *Ibid.*, Bull. 22, 186.

Microgaster Latreille.

brittoni Viereck. Conn. Geol. Nat. Hist. Surv., Bull. 22, 201.
congregatiformis Viereck. *Ibid.*, Bull. 22, 201.
gelechiæ Riley. *Ibid.*, Bull. 22, 201.
solidaginis Viereck. *Ibid.*, Bull. 22, 201.
sp.

Microplitis Fœrster.

melianæ Viereck var. Conn. Geol. Nat. Hist. Surv., Bull. 22, 203.
quintilis Viereck. *Ibid.*, Bull. 22, 203.
varicolor Viereck. *Ibid.*, Bull. 22, 203.
waldeni Viereck. *Ibid.*, Bull. 22, 203.

Microbracon Ashmead.

connecticutorum Viereck. Conn. Geol. Nat. Hist. Surv., Bull. 22, 205.
dorsator Say var. æqualis Provancher. *Ibid.*, Bull. 22, 206.
dorsator var. mellitor Say. *Ibid.*, Bull. 22, 205.
hobomok Viereck. *Ibid.*, Bull. 22, 206.
konkapoti Viereck. *Ibid.*, Bull. 22, 205.
massasoit Viereck. *Ibid.*, Bull. 22, 205.
matacomet Viereck. *Ibid.*, Bull. 22, 206.
montowesei Viereck. *Ibid.*, Bull. 22, 206.
nanus Provancher. Faun. Ent. Can. Hym., 504.
nawaasorum Viereck. Conn. Geol. Nat. Hist. Surv., Bull. 22, 205.
podunkorum Viereck. *Ibid.*, Bull. 22, 205.

quinnipiacorum Viereck. *Ibid.*, Bull. 22, 205.
sanninoideæ Gahan. Proc. U. S. Nat. Mus., liii, 196.
scanticorum Viereck. Conn. Geol. Nat. Hist. Surv., Bull. 22, 205.
sebequanash Viereck. *Ibid.*, Bull. 22, 204.
uncas Viereck. *Ibid.*, Bull. 22, 206.
wawequa Viereck. *Ibid.*, Bull. 22, 204.

Habrobracon (Ashmead) W. J. Johnson.

gelechiæ Ashmead. Conn. Geol. Nat. Hist. Surv., Bull. 22, 209.

Habrobraconidea Viereck.

bicoloripes Viereck. Conn. Geol. Nat. Hist. Surv., Bull. 22, 764.

Iphiaulax Fœrster.

augustus Viereck. Conn. Geol. Nat. Hist. Surv., Bull. 22, 210.
eurygaster Brullé. *Ibid.*, Bull. 22, 210.

Cœloides Wesmæl.

pissodis Ashmead. Conn. Geol. Nat. Hist. Surv., Bull. 22, 210.

Atanycolus Fœrster.

simplex Cresson. Conn. Geol. Nat. Hist. Surv., Bull. 22, 210.

Family ALYSIIDÆ.

Cœlinidea Viereck.

occom Viereck. Conn. Geol. Nat. Hist. Surv., Bull. 22, 212.

Ericœlinius Viereck.

mahackemoi Viereck. Conn. Geol. Nat. Hist. Surv., Bull. 22, 212.

Dacnusa Haliday.

sachemella Viereck. Conn. Geol. Nat. Hist. Surv., Bull. 22, 213.

Pentapleura Fœrster.

foveolata Viereck. Conn. Geol. Nat. Hist. Surv., Bull. 22, 213.

Aspilota Fœrster.

ephemera Viereck. Conn. Geol. Nat. Hist. Surv., Bull., 22, 213.

Asobara Fœrster.

lineata Viereck. Conn. Geol. Nat. Hist. Surv., Bull. 22, 213.

Aphæreta Fœrster.

muscæ Ashmead. Conn. Geol. Nat. Hist. Surv., Bull. 22, 214.

Synaldis Fœrster.

incisa Gahan. Conn. Geol. Nat. Hist. Surv., Bull. 22, 214.

pygmæa Viereck. *Ibid.*, Bull. 22, 215.

quinnipiacorum Viereck. *Ibid.*, Bull. 22, 215.

Family BANCHIDÆ.

Banchus Fabricius.

ferrugineus Provancher. Conn. Geol. Nat. Hist. Surv., Bull. 22, 216.

pallescens Provancher. *Ibid.*, Bull. 22, 216.

Family BRACONIDÆ.

Macrocentrus Curtis.

cerasivorana Viereck. Proc. U. S. Nat. Mus., 42, 623.

delicatus Cresson. Conn. Geol. Nat. Hist. Surv., Bull. 22, 220.

pyraustæ Viereck. *Ibid.*, Bull. 22, 220.

Ichneutidea Ashmead.

secunda Rohwer. Conn. Geol. Nat. Hist. Surv., Bull. 22, 221.

Eubadizon Nees.

lithocolletidis Viereck. Conn. Geol. Nat. Hist. Surv., Bull. 22, 221.

Meteorus Haliday.

communis Cresson. Conn. Geol. Nat. Hist. Surv., Bull. 22, 222.

dimidiatus Cresson. *Ibid.*, Bull. 22, 223.

exareolatus Viereck. *Ibid.*, Bull. 22, 223.

hyphantriæ Riley. *Ibid.*, Bull. 22, 223.

indagator Riley. *Ibid.*, Bull. 22, 222.

petiolariferus Viereck. *Ibid.*, Bull. 22, 223.

pretiosus Viereck. *Ibid.*, Bull. 22, 223.

triangularis Muesbeck. Can. Ent., li, 115.

versicolor Wesmael. *Ibid.*, Bull. 22, 223.

Euphorus Nees.

mellipes Cresson. Conn. Geol. Nat. Hist. Surv., Bull. 22, 224.

Dinocampus Fœrster.

pyri Viereck. Conn. Geol. Nat. Hist. Surv., Bull. 22, 225.

Perilitus Nees.

americanus Riley. Conn. Geol. Nat. Hist. Surv., Bull. 22, 218.

Orgilus Haliday.

detectiformis Viereck. Conn. Geol. Nat. Hist. Surv., Bull. 22, 226.

Bassus Fabricius.

Microdus Authors.

agilis Cresson. Conn. Geol. Nat. Hist. Surv., Bull. 22, 227.
annulipes Cresson. *Ibid.*, Bull. 22, 227.
brittoni Viereck. *Ibid.*, Bull. 22, 227.
buttricki Viereck. *Ibid.*, Bull. 22, 228.
discolor Cresson. *Ibid.*, Bull. 22, 227.
erythrogaster Viereck. *Ibid.*, Bull. 22, 227.
pyrifolii Viereck. *Ibid.*, Bull. 22, 226.
rugareolatus Viereck. *Ibid.*, Bull. 22, 228.
sanctus Say. *Ibid.*, Bull. 22, 228.
waldeni Viereck. *Ibid.*, Bull. 22, 228.
winkleyi Viereck. *Ibid.*, Bull. 22, 227.

Bracon Panzer.

Agathis Latreille.

branfordensis Viereck. Conn. Geol. Nat. Hist. Surv., Bull. 22, 230.
sassacus Viereck. *Ibid.*, Bull. 22, 230.
semirubra Viereck. *montrealensis* Morrison. *Ibid.*, Bull. 22, 230.
solidaginis Viereck. *Ibid.*, Bull. 22, 230.

Spathius Nees.

sp.

Ascogaster Wesmael.

provancheri Dalla Torre var. pallidicornis Viereck. Conn. Geol. Nat. Hist. Surv., Bull. 22, 231.

Chelonus Jurine.

fissus Provancher. Conn. Geol. Nat. Hist. Surv., Bull. 22, 232.
konkaputus Viereck. *Ibid.*, Bull. 22, 232.
mysticorum Viereck. *Ibid.*, Bull. 22, 232.
sassacus Viereck. *Ibid.*, Bull. 22, 232.

Sigalphus Latreille.

Sphæropyx Illiger.

bicolor Cresson. Conn. Geol. Nat. Hist. Surv., Bull. 22, 233.

Urosigalphus Ashmead.

mohawkorum Viereck. Conn. Geol. Nat. Hist. Surv., Bull. 22, 234.

wampanoagorum Viereck. *Ibid.*, Bull. 22, 234.

Epirhyssalus Ashmead.

atriceps Ashmead. Conn. Geol. Nat. Hist. Surv., Bull. 22, 235.

Bucculatriplex Viereck.

secundus Viereck. Conn. Geol. Nat. Hist. Surv., Bull. 22, 765.

sp. *Ibid.*, Bull. 22, 766.

Aleiodes Wesmael.

burrus Cresson. Conn. Geol. Nat. Hist. Surv., Bull. 22, 236.

ceruræ Ashmead. Proc. U. S. Nat. Mus., 1888, 634.

parasiticus Norton. *Ibid.*, Bull. 22, 235.

terminalis Cresson. *Ibid.*, Bull. 22, 235.

waldeni Viereck. *Ibid.*, Bull. 22, 235.

Hormius Nees.

completus Provancher. Conn. Geol. Nat. Hist. Surv., Bull. 22, 236.

Heterospilus Halliday.

eurostæ Viereck. Conn. Geol. Nat. Hist. Surv., Bull. 22, 238.

Polystenidea Viereck.

metacomet Viereck. Conn. Geol. Nat. Hist. Surv., Bull. 22, 238.

Family MYERSIIDÆ.

Thaumatotypidea Viereck.

spinulata Strickland. Conn. Geol. Nat. Hist., Surv., Bull. 22, 238. (A.B.C.)

Family EVANIIDÆ.

Gasteruption Latreille.

Fœnus Fabricius.

micrurus Kieffer. Conn. Geol. Nat. Hist. Surv., Bull. 22, 240.

montanus Cresson var. **incertus** Cresson. *Ibid.*, Bull. 22, 240.

tarsatorius Say. *Ibid.*, Bull. 22, 240.

Hyptia Illiger.

harpyoidea Bradley. Conn. Geol. Nat. Hist. Surv., Bull. 22, 240.

Family TRIGONALIDÆ.

Lycogaster Schuckard.

pullatus Schuckard var. hollensis Melander and Brues. Conn. Geol. Nat. Hist. Surv., Bull. 22, 243.

Family CAPITONIIDÆ.

Capitonius Brullé.

saperdæ Ashmead. Conn. Geol. Nat. Hist. Surv., Bull. 22, 766.

Family ICHNEUMONIDÆ.

Praon Haliday.

alaskensis Ashmead. Conn. Geol. Nat. Hist. Surv., Bull. 22, 259.

pequodorum Viereck. *Ibid.*, Bull. 22, 259.

Aphidius Nees.

avenaphis Fitch. *granariaphis*. Conn. Geol. Nat. Hist. Surv., Bull. 22, 260.

exareolatus Viereck. *Ibid.*, Bull. 22, 260.

nigripes Ashmead. *Ibid.*, Bull. 22, 260.

polygonaphis Fitch. *Ibid.*, Bull. 22, 260.

rapæ Curtis. *Ibid.*, Bull. 22, 260.

rosæ Haliday. *Ibid.*, Bull. 22, 260.

testaceipes Cresson. *Ibid.*, Bull. 22, 259.

Cymodusa Holmgren.

distincta Cresson. Conn. Geol. Nat. Hist., Surv., Bull. 22, 262.

Sagaritis Holmgren.

aprilis Viereck. Conn. Geol. Nat. Hist., Surv., Bull. 22, 262.

conjunctiformis Viereck. *Ibid.*, Bull. 22, 262.

dubitatus Cresson. *provancheri*. *Ibid.*, Bull. 22, 262.

patsuiketorum Viereck. *Ibid.*, Bull. 22, 262.

Campoplex Gravenhorst.*

amasecontorum Viereck. (Nepiera). Conn. Geol. Nat. Hist. Surv., Bull. 22, 266.
clisiocampæ Weed. (Ameloctonus). *Ibid.*, Bull. 22, 266.
diversicolor Viereck. (Hyposoter). *Ibid.*, Bull. 22, 267.
elyi Viereck. (Hypothereutes). *Ibid.*, Bull. 22, 264.
etemankiakorum Viereck. (Bathyplectes). *Ibid.*, Bull. 22, 263.
fugitivus Say. (Ameloctonus). *Ibid.*, Bull. 22, 266.
grossulariforæ Viereck. (Campoplex). *Ibid.*, Bull 22, 263.
kiehtani Viereck. (Angitia). *Ibid.*, Bull. 22, 265.
macer Cresson. (Angitia). *Ibid.*, Bull. 22, 265.
maquinnai Viereck. (Campoplex). *Ibid.*, Bull. 22, 263.
metacomet Viereck. (Holocremnus). *Ibid.*, Bull. 22, 264.
nolæ Ashmead. (Campoplex). *Ibid.*, Bull. 22, 263.
œdemisiæ Ashmead. (Ameloctonus). *Ibid.*, Bull. 22, 266.
œdemisiformis Viereck. (Angitia). *Ibid.*, Bull. 22, 265.
openangorum Viereck. (Angitia). *Ibid.*, Bull. 22, 265.
parviformis Viereck. (Angitia). *Ibid.*, Bull. 22, 265.
pentagœtorum Viereck. (Campoplex). *Ibid.*, Bull. 22, 263.
pilosulus Provancher. (Ameloctonus). *Ibid.*, Bull. 22, 266.
ruficoxa Provancher. (Angitia). *Ibid.*, Bull. 22, 265.
vernalis Viereck. (Hypothereutes). *Ibid.*, Bull. 22, 264.
woonandi Viereck. (Angitia). *Ibid.*, Bull. 22, 265.

Casinaria Holmgren.

argentea Norton. (Subgenus?). Conn. Geol. Nat. Hist. Surv., Bull. 22, 273.
assita Norton. (Subgenus?) *Ibid.*, Bull. 22, 272.
ceanothi Viereck. (Pseudocasinaria). *Ibid.*, Bull. 22, 270.
diversa Norton. (Subgenus?). *Ibid.*, Bull. 22, 272.
eupitheciæ Viereck. (Casinaria). *Ibid.*, Bull. 22, 270.
genuina Norton. (Neonortonia). *Ibid.*, Bull. 22, 271.
glauca Norton. (Subgenus?). *Ibid.*, Bull. 22, 272.
porrecta Cresson. (Eripternoides). *Ibid.*, Bull. 22, 269.
radiolata Provancher. (Eripternus). *Ibid.*, Bull. 22, 269.
scabriformis Viereck. (Casinaria). *Ibid.*, Bull. 22, 270.
sokanakiakorum Viereck. (Idechtis). *Ibid.*, Bull. 22, 270.
villosa Norton. (Anisitsia). *Ibid.*, Bull. 22, 272.
vitticollis Norton. (Anisitsia). *Ibid.*, Bull. 22, 271.

* See also appendix.

Paracanidia Viereck.

elyi Viereck. Conn. Geol. Nat. Hist. Surv., Bull. 22, 273.

Ceratogastra Ashmead.

fasciata Cresson. *ornata* Say. *Ceratosoma.* Conn. Geol. Nat. Hist. Surv., Bull. 22, 273.

Pristomerus Curtis.

olamonus Viereck. Conn. Geol. Nat. Hist. Surv., Bull. 22, 274.

Porizon Fallen.

conotracheli Riley. *Thersilochus.* Conn. Geol. Nat. Hist. Surv., Bull. 22, 275.

Porizonidea Viereck.

, sp.

Orthopelma Taschenberg.

diastrophi Ashmead. *Prædrus.* Conn. Geol. Nat. Hist. Surv., Bull. 22, 275.

luteolator Gravenhorst. Proc. U. S. Nat. Mus., 49, 226.

Plectiscidea Viereck.

contentionis Viereck. *Mesoleptus rufipes.* Conn. Geol. Nat. Hist. Surv., Bull. 22, 276.

Cremaster Gravenhorst.

forbesii Weed. Proc. U. S. Nat. Mus., 53, 513.

Mesochorus Gravenhorst.

calais Viereck. Conn. Geol. Nat. Hist. Surv., Bull. 22, 280.

scitulus Cresson. *Ibid.,* Bull. 22, 279.

Paniscus Gravenhorst.

geminatus Say. Conn. Geol. Nat. Hist. Surv., Bull. 22, 280.

Erigorgus (Fœrster) Brischke.

Anomalon Authors.

anale Say. Conn. Geol. Nat. Hist. Surv., Bull. 22, 284.

ferrugineum Norton. *Ibid.,* Bull. 22, 285.

hyaline Norton. *Ibid.,* Bull. 22, 284.

luteopectum Norton. *Ibid.,* Bull. 22, 284.

prismaticum Norton. *Ibid.,* Bull. 22, 284.

rufulum Provancher. *Ibid.,* Bull. 22, 284.

Heteropelma Wesmael.

flavicorne Brullé. Conn. Geol. Nat. Hist. Surv., Bull. 22, 285.

Therion Curtis.

Exochilum Wesmael.

morio Fabricius. Conn. Geol. Nat. Hist. Surv., Bull. 22, 286.
sassacus Viereck. *Ibid.*, Bull. 22, 286.
tenuipes Norton. *Ibid.*, Bull. 22, 286.
waccagum Viereck. *Ibid.*, Bull. 22, 287.

Brachixiphosoma Viereck.

pyralidis Ashmead. *Eiphosoma.* Trans. Am. Ent. Soc., xxiii, 191.

Thyreodon Brullé.

brullei Viereck. *morio.* Conn. Geol. Nat. Hist. Surv., Bull. 22, 287.

Anomalon Panzer.

Nototrachys Marshall.

sp. Conn. Geol. Nat. Hist. Surv., Bull. 22, 766.

Ophion Fabricius.

arcuatus Felt. Conn. Geol. Nat. Hist. Surv., Bull. 22, 288.
bilineatus Say. *Ibid.*, Bull. 22, 287.
macrurus Linnæus. *Ibid.*, Bull. 22, 287.
purgatus Say. *Ibid.*, Bull. 22, 288.
slossoni Davis. *Ibid.*, Bull. 22, 287.

Rogas Nees.

honestus Cresson. Conn. Geol. Nat. Hist. Surv., Bull. 22, 289.

Mesoleptidea Viereck.

Mesoleptus Authors.

albifrons Cresson. Conn. Geol. Nat. Hist. Surv., Bull. 22, 290.
decens Cresson. *Ibid.*, Bull. 22, 290.

Catoglyptus Fœrster.

fucatus Cresson. Conn. Geol. Nat. Hist. Surv., Bull. 22, 291.

Spanotecnus Fœrster.

concolor Cresson. Conn. Geol. Nat. Hist. Surv., Bull. 22, 292.
obscurellus Davis. *Ibid.*, Bull. 22, 292.

Mesoleius Holmgren.

scapularis Cresson. Conn. Geol. Nat. Hist. Surv., Bull. 22, 292.

Trematopygus Holmgren.

sp.

Holmgrenia Fœrster.

tarsalis Cresson. Conn. Geol. Nat. Hist. Surv., Bull. 22, 293.

Rhimphalea Fœrster.

erythrogastra Viereck. Conn. Geol. Nat. Hist. Surv., Bull. 22, 296.

Polyblastus Hartig.

pedalis Cresson. Conn. Geol. Nat. Hist. Surv., Bull. 22, 297.

Erromenus Holmgren.

dimidiatus Cresson. Conn. Geol. Nat. Hist. Surv., Bull. 22, 298.

Euceros Gravenhorst.

flavescens Cresson. Conn. Geol. Nat. Hist. Surv., Bull. 22, 299.

thoracicus Cresson. *Ibid.*, Bull. 22, 299.

Sympherta Fœrster.

burra Cresson. Conn. Geol. Nat. Hist. Surv., Bull. 22, 299.

Rhorus Fœrster.

bicolor Cresson. Conn. Geol. Nat. Hist. Surv., Bull. 22, 300.

Anecphysis Fœrster.

ruficrus Walsh. Conn. Geol. Nat. Hist. Surv., Bull. 22, 301.

Exenterus Hartig.

consors Cresson. Conn. Geol. Nat. Hist. Surv., Bull. 22, 301.

Syrphoctonus Fœrster.

agilis Cresson. *Bassus*. Conn. Geol. Nat. Hist. Surv., Bull. 22, 302.

Diplazon (Nees) Gravenhorst.

Bassus Authors.

antennatus Davis. (Zootrephes). Conn. Geol. Nat. Hist. Surv., Bull. 22, 304.

bicapillaris Walsh. (Homotropus). *Ibid.*, Bull. 22, 304.

concinnus Cresson. *Ibid.*, Bull. 22, 303.

frontalis Cresson. *Ibid.*, Bull. 22, 302.

lætatorius Fabricius. *Ibid.*, Bull. 22, 303.

sycophanta Walsh. *Ibid.*, Bull. 22, 303.

Brephoctonus (Fœrster) Ashmead.

hygrotrecha Viereck. Conn. Geol. Nat. Hist. Surv., Bull. 22, 305.

Hyperacmus Holmgren.

ovatus Davis. Conn. Geol. Nat. Hist. Surv., Bull. 22, 305.

Exochus Gravenhorst.

pallipes Cresson. Conn. Geol. Nat. Hist. Surv., Bull. 22, 306.
propinquus Cresson. *Ibid.*, Bull. 22, 306.
semirufus Cresson. *Ibid.*, Bull. 22, 306.

Chorineus Holmgren.

carinatus Cresson. Conn. Geol. Nat. Hist. Surv., Bull. 22, 308.
costatus Davis. *Ibid.*, Bull. 22, 308.

Metopius Panzer.

pollinctorius Say. Conn. Geol. Nat. Hist. Surv., Bull. 22, 309.

Grotea Cresson.

anguina Cresson. Conn. Geol. Nat. Hist. Surv., Bull. 22, 309.

Euxorides Cresson.

americanus Cresson. **(Calliclisis).** Conn. Geol. Nat. Hist. Surv., Bull. 22, 309.

Odontomerus Gravenhorst.

mellipes Say. Conn. Geol. Nat. Hist. Surv., Bull. 22, 311.

Phytodietus Gravenhorst.

annulatus Provancher. Proc. U. S. Nat. Mus., 57, 466.
pulcherrimus Cresson. *Ibid.*, 57, 462.
vulgaris Cresson. Conn. Geol. Nat. Hist. Surv., Bull. 22, 312.

Meniscus Schiödte.

elegans Cresson. Conn. Geol. Nat. Hist. Surv., Bull. 22, 312.
pulcherrimus Cresson. *Ibid.*, Bull. 22, 312.
superbus Provancher. *Ibid.*, Bull. 22, 312.

Lissonota Gravenhorst.

Lampronota Curtis.

americana Cresson. **(Alloplasta).** Conn. Geol. Nat. Hist. Surv., Bull. 22, 314.
appalachia Viereck. **(Nadia).** *Ibid.*, Bull. 22, 314.
exilis Cresson. *Ibid.*, Bull. 22, 314.
frigida Cresson. *Ibid.*, Bull. 22, 314.
occidentalis Cresson. (Alloplasta). *Ibid.*, Bull. 22, 313.
philipi Viereck. *Ibid.*, Bull. 22, 314.
punctulata Cresson. *Ibid.*, Bull. 22, 314.
rubrica Cresson. *Ibid.*, Bull. 22, 314.
varia Cresson. **(Alloplasta).** *Ibid.*, Bull. 22, 314.

Cryptoideus Ashmead.

Xylophruridea Viereck.

agrili Viereck. Proc. U. S. Nat. Mus., 55, 536.

luctuosus Provancher. *Ibid.*, 55, 536.

Glypta Gravenhorst.

rufiscutellaris Cresson. Conn. Geol. Nat. Hist. Surv., Bull. 22, 317.

Clistopyga Gravenhorst.

annulipes Cresson. Conn. Geol. Nat. Hist. Surv., Bull. 22, 317.

Polysphincta Gravenhorst.

pontiaci Viereck. Conn. Geol. Nat. Hist. Surv., Bull. 22, 318.

rubricapensis Provancher. *Ibid.*, Bull. 22, 317.

texana Cresson. *Ibid.*, Bull. 22, 318.

Scambus Hartig.

Pimpla Authors.

cœlebs Walsh. (Iseropus,) Trans. St. Louis. Acad. Sci., iii, 141.

conquisitor Say. (Itoplectis). Conn. Geol. Nat. Hist. Surv., Bull. 22, 319.

grapholithæ Cresson. (Calliephialtes). *Ibid.*, Bull. 22, 320.

inquisitoriellus Dalla Torre. (Iseropus). *inquisitor. Ibid.*, Bull. 22, 320.

inquisitoriellus var. investigator Walsh. *Ibid.*, Bull. 22, 319.

marginatus Viereck. *Pimplidea æqualis.* Provancher. *Ibid.*, Bull. 22, 319.

notandus Cresson. (Epiurus). *Ibid.*, Bull. 22, 320.

pedalis Cresson. (Pimplidea). *Ibid.*, Bull. 22, 319.

pterelas Say. (Epiurus). *Ibid.*, Bull. 22, 320.

rufopectus Cresson. (Tromatobia). *Ibid.*, Bull. 22, 320.

tecumsehi Viereck. (Epiurus). *Ibid.*, Bull. 22, 320.

tenuicornis Cresson. (Delomerista). *Ibid.*, Bull. 22, 319.

viduiformis Viereck. (Iseropus). *Ibid.*, Bull. 22, 766.

Theronia Holmgren.

melanocephala Brullé. Conn. Geol. Nat. Hist. Surv., Bull. 22, 323.

Ichneumon Linnæus.

Ephialtes Gravenhorst.

irritator Fabricius. Conn. Geol. Nat. Hist. Surv., Bull. 22, 324.

Megarhyssa Ashmead.

atrata Fabricius. *Thalessa.* Black long-sting. Conn. Geol. Nat. Hist. Surv., Bull. 22, 325.

greenei Viereck. *Ibid.,* Bull. 22, 325. (A.I.B.)

lunator Fabricius. *Thalessa.* Lunate long-sting. *Ibid.,* Bull. 22, 325.

Rhyssa Gravenhorst.

lineolata Kirby. *nitida* merrill. *albomaculata* Cresson. Conn. Nat. Hist. Surv., Bull. 22, 325-6.

Rhyssella Rohwer.

humida Say. Proc. U. S. Nat. Mus., 57, 423.

Arotes Gravenhorst.*

amœnus Cresson. Conn. Geol. Nat. Hist. Surv., Bull. 22, 326.

Coleocentrus Gravenhorst.

rufus Provancher. Conn. Geol. Nat. Hist. Surv., Bull. 22, 327.

Gelis Thunberg.

Pezomachus Gravenhorst.

lymensis Strickland. **(Micromeson).** Conn. Geol. Nat. Hist. Surv., Bull. 22, 327.

minimus Walsh. *Ibid.,* Bull. 22, 328.

ottawænsis Harrington. *Ibid.,* Bull. 22, 328.

Mesostenidea Viereck.

spinaria Brullé. (*Polyœnus.*) Conn. Geol. Nat. Hist. Surv., Bull. 22, 329.

Acroricnus Ratzeburg.

junceus Cresson. Conn. Geol. Nat. Hist. Surv., Bull. 22, 330.

Joppidium Walsh.

peregrinus Cresson. *Mesoleptus.* Conn. Geol. Nat. Hist. Surv., Bull. 22, 330.

Agrothereutes Fœrster.

Cryptus Fabricius.

alacris Cresson. Conn. Geol. Nat. Hist. Surv., Bull. 22, 332.

americanus Cresson. *Ibid.,* Bull. 22, 332.

canadensis Provancher. *Ibid.,* Bull. 22, 332.

* See also appendix.

cressoni Viereck. *Ibid.*, Bull. 22, 331.
hirtifrons Ashmead. *Ibid.*, Bull. 22, 336.
hyslopi Viereck. *Ibid.*, Bull. 22, 332.
limatus Cresson. *Ibid.*, Bull. 22, 332.
lophyri Norton. *Ibid.*, Bull. 22, 331.
mundus Provancher. *Ibid.*, Bull. 22, 331.
nuncius Say. Compl. Writ., ii, 693.
rufus Provancher. *Ibid.*, Bull. 22, 330.

Phygadeuon Gravenhorst.

auriculiferus Viereck. (Bachia). Conn. Geol. Nat. Hist Surv., Bull. 22, 336.
brittoni Viereck. (Bachia). Ibid., Bull. 22, 335.
melanocerus Viereck. (Plesignathus). *Ibid.*, Bull. 22, 335.
nortoni Viereck. (Plesignathus). *Ibid.*, Bull. 22, 335.
orbitaliformis Viereck. (Scinacopus). *Ibid.*, Bull. 22, 335.
quintilis Viereck. (Plesignathus). *Ibid.*, Bull. 22, 334.
ruficornis Provancher. *Ibid.*, Bull. 22, 334.
tæniatus Viereck. (Plesignathus). *Ibid.*, Bull. 22, 335.
tumidiformis Viereck. (Bachia). *Ibid.*, Bull. 22, 335.
vulgaris Cresson. *Ibid.*, Bull. 22, 334.

Ænoplex Fœrster.

smithi Packard. *Phygadeuon.* Proc. Bost. Nat. Hist., ix, 346.

Hemiteles Gravenhorst.

algonquinus Viereck. (Rhadinocera). Conn. Geol. Nat. Hist. Surv., Bull. 22, 339.
areator tenellus Say. (Orthizema). *utilis.* *Ibid.*, Bull. 22, 337.
crassiformis Viereck. (Idemum). *Ibid.*, Bull. 22, 339.
eximius Cresson. *Mesoleptus.* *Ibid.*, Bull. 22, 337.
fulvipes Gravenhorst. (Astomaspis). *Ibid.*, Bull. 22, 338.
laticinctus Ashmead. *Ibid.*, Bull. 22, 339.
loniceræ Viereck. (Ethelurgus). *Ibid.*, Bull. 22, 338.
metacomet Viereck. (Eriplanus.) Bull. 22, 338.
nigricaniformis Viereck. (Zoophthorus). *Ibid.*, Bull. 22, 338.
orbiformis Viereck. (Zamicrotoridea). *Ibid.*, Bull. 22, 339.
rileyi Ashmead. *cressoniformis* Viereck. (Otacustes). *Ibid.*, Bull. 22, 339.

Stilpnus Gravenhorst.

americanus Cresson. Conn. Geol. Nat. Hist. Surv., Bull. 22, 341.

Phæogenes Wesmael.

fungor Norton. Conn. Geol. Nat. Hist. Surv., Bull. 22, 341.
hebe Cresson. *Ibid.*, Bull. 22, 341.
hebrus Cresson. *Ibid.*, Bull. 22, 341.
helvolus Cresson. *Ibid.*, Bull. 22, 342.
quadriceps Cresson. *Ibid.*, Bull. 22, 341.
vincibilis Cresson. *Ibid.*, Bull. 22, 341.

Colpognathus Wesmael.

helvus Cresson. Conn. Geol. Nat. Hist. Surv., Bull. 22, 342.

Trogus Gravenhorst.

brullei Cresson. (Automalus). Conn. Geol. Nat. Hist. Surv., Bull. 22, 343.
vulpinus Gravenhorst. (Psilomastix). *exesorius*. *Ibid.*, Bull. 22, 343.

Amblyteles Wesmael.

Ichneumon Authors.

anceps Cresson. (Ectopimorpha). Conn. Geol. Nat. Hist. Surv., Bull. 22, 349.
apertus Cresson. (Pterocormus?). *Ibid.*, Bull. 22, 345.
brevicinctor Say. (Pterocormus?). *Ibid.*, Bull. 22, 351.
brittoni Viereck. (Pterocormus). *Ibid.*, Bull. 22, 348.
centrator Say. (Stenichneumon?). *Ibid.*, Bull. 22, 346.
cincticornis Cresson. (Stenichneumon?). *Ibid.*, Bull. 22, 344.
cinctitarsis Provancher. (Stenichneumon?). *Ibid.*, Bull. 22, 345.
citrifrons Cresson. (Pterocormus?). *Ibid.*, *Bull.* 22, 353.
comes Cresson. (Cratichneumon?). *Ibid.*, Bull. 22, 352.
comes var. **aleatorius** Harris. (Cratichneumon?). *Ibid.*, Bull. 22, 352.
comptus Say. (Pterocormus?). *Ibid.*, Bull. 22, 353.
disparilis Cresson. (Pterocormus?). *Ibid.*, Bull. 22, 348.
duplicatiformis Viereck. (Barichneumon). *Ibid.*, Bull. 22, 354.
electus Cresson. (Amblyteles). *Ibid.*, Bull. 22, 353.

extrematatis Cresson. (Pterocormus?). *Ibid.*, Bull. 22, 344.
flavicornis Cresson. (Stenichneumon?). *Ibid.*, Bull. 22, 351.
flavizonatus Cresson. (Cratichneumon?). *Ibid.*, Bull. 22, 352.
footei Viereck. (Pterocormus). *Ibid.*, Bull. 22, 353.
galenus Cresson. (Cratichneumon?). *Ibid.*, Bull. 22, 351.
hospitus Cresson. (Pterocormus?). *Ibid.*, Bull. 22, 353.
infidelis Cresson. (Pterocormus?). *Ibid.*, Bull. 22, 351.
instabilis Cresson. (Pterocormus?). *Ibid.*, Bull. 22, 353.
jucundus Brullé. (Pterocormus?). *Ibid.*, Bull. 22, 346.
lætus Brullé. *canadensis. funestus.* (Cratichneumon?) *Ibid.*, Bull. 22, 352.
leviculus Cresson. (Cratichneumon?). *Ibid.*, Bull. 22, 353.
lewisii Cresson. (Pterocormus?). *Ibid.*, Bull. 22, 347.
malacus Say. (Stenichneumon?). *Ibid.*, Bull. 22, 345.
merus Cresson. (Pterocormus?). *Ibid.*, Bull. 22, 351.
mimicus Cresson. (Pterocormus?). *Ibid.*, Bull. 22, 353.
nigratoricolor Viereck. (Chasmias?). *Ibid.*, Bull. 22, 344.
nortoni Cresson. (Amblyteles). *Ibid.*, Bull. 22, 349.
ormenus Cresson. (Stenichneumon?). *Ibid.*, Bull. 22, 349.
otiosus Say. (Stenichneumon?). *Ibid.*, Bull. 22, 346.
parvus Cresson. (Pterocormus?). *Ibid.*, Bull. 22, 352.
pepticus Say. (Cratichneumon?). *Ibid.*, Bull. 22, 351.
pequoitorum Viereck. (Chasmias?). *Ibid.*, Bull. 22, 345.
pulcher Brullé. (Cœlichneumon). *Ibid.*, Bull. 22, 350.
putus Cresson. (Pterocormus?). *Ibid.*, Bull. 22, 347.
quadrizonatus Viereck. (Pterocormus). *Ibid.*, Bull. 22, 352.
quintilis Viereck. (Pterocormus). *Ibid.*, Bull. 22, 354.
sassacus Viereck. (Cœlichneumon). *Ibid.*, Bull. 22, 349.
seminiger Cresson. (Pterocormus?). *Ibid.*, Bull. 22, 348.
signatipes Cresson. (Pterocormus?). *Ibid.*, Bull. 22, 348.
soror Cresson. (Barichneumon). *Ibid.*, Bull. 22, 348.
stadaconensis Provancher. (Amblyteles). *Ibid.*, Bull. 22, 351, 355.
subcyaneus Cresson. (Cratichneumon?). *Ibid.*, Bull. 22, 351.
succinctus Brullé. (Cratichneumon?). *Ibid.*, Bull. 22, 354.
suturalis Say. (Amblyteles). *Ibid.*, Bull. 22, 349.
ultus Cresson. (Amblyteles). *Ibid.*, Bull. 22, 351.
ultus var. rogalis Cresson. (Amblyteles). *Ibid.*, Bull. 22, 351.

unifasciatorius Say. (Pterocormus?). *Ibid.*, Bull. 22, 351.
versabilis Cresson. (Pterocormus?). *Ibid.*, Bull. 22, 352.
vinnulus Cresson. (Pterocormus?). *Ibid.*, Bull. 22, 353.
w-album Cresson. (Cratichneumon?). *Ibid.*, Bull. 22, 348, 354.
winkleyi Viereck. (Pterocormus). *Ibid.*, Bull. 22, 348.

Family FIGITIDÆ.

Anacharis Dalman.

sp. Conn. Geol. Nat. Hist. Surv., Bull. 22, 365.

Aspicera Dahlbom.

sp. Conn. Geol. Nat. Hist. Surv., Bull. 22, 365.

Family CYNIPIDÆ.

Periclistus Fœrster.

pirata Osten Sacken. *Aulax. Rhodites globulus.* Conn. Geol. Nat. Hist. Surv., Bull. 22, 373.

Aylax Hartig.

podagræ Bassett. Conn. Geol. Nat. Hist. Surv., Bull. 22, 374.
tumida Bassett. Lettuce tumor gall. *Ibid.*, Bull. 22, 375. (W.B.)

Ceroptres Hartig.

ficus Fitch. Conn. Geol. Nat. Hist. Surv., Bull. 22, 377. (H.F.B.)

Synergus Hartig.

lana Fitch. Oak wool gall. Conn. Geol. Nat. Hist. Surv., Bull. 380. (B.H.W.)

Philonyx Fitch.

erinacei Walsh. Oak hedghog gall. N. Y. St. Mus., Bull. 200, 94.

Biorhiza Westwood.

forticornis Walsh. (Xanthoteras). Oak fig gall. Conn. Geol. Nat. Hist. Surv., Bull. 22, 384.
hirta Bassett. (Xystoteras) *Philonix. Ibid.*, Bull. 22, 383.

Neuroterus Hartig.

batatus Fitch. Oak potato gall. Conn. Geol. Nat. Hist. Surv., Bull. 22, 384.

consimilis Bassett. *Ibid.*, Bull. 22, 387.
distortus Bassett. *Ibid.*, Bull. 22, 388.
dubius Bassett. *Ibid.*, Bull. 22, 388.
exiguissimus Bassett. *Ibid.*, Bull. 22, 389.
exiguus Bassett. *Ibid.*, Bull. 22, 389.
floccosus Bassett. *Ibid.*, Bull. 22, 390.
majalis Bassett. *Ibid.*, Bull. 22, 385.
noxiosus Bassett. Noxious Oak Gall. *Ibid.*, Bull. 22, 391.
pallidus Bassett. *Ibid.*, Bull. 22, 386.
tectus Bassett. *Ibid.*, Bull. 22, 389.
umbilicatus Bassett. Oak button gall. *Ibid.*, *Bull.* 22, 390.

Dryophanta Fœrster.

corrugis Bassett. Conn. Geol. Nat. Hist. Surv., Bull. 22, 397.
ignota Bassett. *Ibid.*, Bull. 22, 398.
longicornis Bassett. *Ibid.*, Bull. 22, 397, 398.
pallipes Bassett. *Ibid.*, Bull. 22, 398.
papula Bassett. *Ibid.*, Bull. 22, 400.
parvula Bassett. *Ibid.*, Bull. 22, 396.
pedunculata Bassett. *Ibid.*, Bull. 22, 400.

Holcaspis Mayr.

duricoria Bassett. Pointed bullet gall. Conn. Geol. Nat. Hist. Surv., Bull. 22, 402.
fasciata Bassett. *Ibid.*, Bull. 22, 402.
globulus Fitch. Oak bullet gall. *Ibid.*, Bull. 22, 401.
rugosa Bassett. *Ibid.*, Bull. 22, 401.

Cynips Linnæus.

confluens Harris. Oak or May apple. Conn. Geol. Nat. Hist. Surv., Bull. 22, 404.
cristata Stebbins. *Ibid.*, Bull. 22, 768. (G.D.)
decidua Bassett. Ins. Galls Springfield, 20.
strobilana Osten Sacken. Pine cone oak gall. Conn. Geol. Nat. Hist. Surv., Bull. 22, 403.

Amphibolips Reinhard.

badia Bassett. Conn. Geol. Nat. Hist. Surv., Bull. 22, 405.
cœlebs Osten Sacken. Oak spindle gall. *Ibid.*, Bull. 22, 407.
cooki Gillette. *Ibid.*, Bull. 22, 768. (W.B.)
illicifoliæ Bassett. Scrub oak gall. *Ibid.*, Bull. 22, 405. (G.D.)
inanis Osten Sacken. Empty oak apple. *Ibid.*, Bull. 22, 407.

nubilipennis Harris. *Ibid.*, Bull. 22, 408.
prunus Walsh. Acorn plum gall. *Ibid.*, Bull. 22, 406. (G.D.)
sculpta Bassett. *Ibid.*, Bull. 22, 408.
tinctoriæ Ashmead. *Ibid.*, Bull. 22, 768. (G.D.)
verna Bassett. *Ibid.*, Bull. 22, 404. (H.F.B.)

Andricus Hartig.

ashmeadii Bassett. Conn. Geol. Nat. Hist. Surv., Bull. 22, 418. (H.F.B.)
ceropteroides Bassett. **(Callirhytis).** *Ibid.*, Bull. 22, 434.
cicatricula Bassett. *Ibid.*, Bull. 22, 413. (H.F.B.)
corniger Osten Sacken. Horned knot oak gall. *Ibid.*, Bull. 22, 414.
exiguus Bassett. *Ibid.*, Bull. 22, 417. (H.F.B.)
formosus Bassett. *Ibid.*, Bull. 22, 409. (H.F.B.)
fruticola Ashmead. *Ibid.*, Bull. 22, 769.
futilis Osten Sacken. **(Callirhytis).** *papillatus*. Oak wart gall. *Ibid.*, Bull. 22, 433.
glandulus Beutenmüller. *Ibid.*, Bull. 22, 770.
incertus Bassett. *Ibid.*, Bull. 22, 414. (H.F.B.)
obtusilobæ Bassett. *Ibid.*, Bull. 22, 415. (H.F.B.)
operatola Riley and Bassett. *Ibid.*, Bull. 22, 418. (H.F.B.)
operator Osten Sacken. *Ibid.*, Bull. 22, 429.
ostensackenii Bassett. *Ibid.*, Bull. 22, 412. (H.F.B.)
palustris Osten Sacken. Succulent oak gall. *Ibid.*, Bull. 22, 419.
patiens Bassett. *Ibid.*, Bull. 22, 416. (H.F.B.)
pattoni Bassett. *Ibid.*, Bull. 22, 423. (H.F.B.)
petiolicola Bassett. Oak petiole gall. *Ibid.*, Bull. 22, 412.
piger Bassett. *Ibid.*, Bull. 22, 422. (H.F.B.)
piperoides Bassett. *Ibid.*, Bull. 22, 415. (H.F.B.)
pruinosus Bassett. *Ibid.*, Bull. 22, 411. (H.F.B.)
pulchellus Bassett. *Ibid.*, Bull. 22, 416. (H.F.B.)
punctatus Bassett. **(Callirhytis).** Oak knot gall. *Ibid.*, Bull. 22, 431.
pusulatoides Bassett. **(Callirhytis).** *Ibid.*, Bull. 22, 433. (H.F.B.)
saccularis Bassett. **(Callirhytis).** *Ibid.*, Bull. 22, 432. (H.F.B.)
scitulus Bassett. **(Callirhytis).** *Ibid.*, Bull. 22, 429.

seminator Harris. (Callirhytis). Oak seed gall. *Ibid.*, Bull. 22, 430.

similis Bassett. (Callirhytis). Scrub oak club gall. *Ibid.*, Bull. 22, 428.

singularis Bassett. (Callirhytis). Small oak apple. *Ibid.*, Bull. 22, 431. (H.F.B.)

tuberosus Bassett. (Callirhytis). *Ibid.*, Bull. 22, 430. (H.F.B.)

utriculus Bassett. *Ibid.*, Bull. 22, 423.

ventricosa Bassett. *Ibid.*, Bull. 22, 409. (H.F.B.)

Solenozopheria Ashmead.

vaccinii Ashmead. Huckleberry gall. Conn. Geol. Nat. Hist. Surv., Bull. 22, 434.

Diastrophus Hartig.

bassettii Beutenmüller. Bassett's Blackberry gall. Conn. Geol. Nat. Hist. Surv., Bull. 22, 438.

cuscutæformis Osten Sacken. Blackberry seed gall. *Ibid.*, Bull. 22, 435.

fragariæ Beutenmüller. Can. Ent., xlvii, 353.

minimus Bassett. Conn. Geol. Nat. Hist. Surv., Bull. 22, 438.

nebulosus Osten Sacken. Blackberry knot gall. *Ibid.*, Bull. 22, 435.

potentillæ Bassett. *Gonaspis*. Cinquefoil axil gall. *Ibid.*, Bull. 22, 436.

radicum Bassett. Raspberry root gall. *Ibid.*, Bull. 22. 437.

similis Bassett. *Ibid.*, Bull. 22, 437.

Dipolepis Geoffroy.
Rhodites Hartig.

bicolor Harris. Spiny rose gall. Conn. Geol. Nat. Hist. Surv., Bull. 22, 440.

dichlocerus Harris. Long rose gall. *Ibid.*, Bull. 22, 441.

globuloides Beutenmüller. Globular rose gall. *Ibid.*, Bull. 22, 771.

gracilis Ashmead. *Ibid.*, Bull. 22, 441, 771.

ignotus Osten Sacken. Mealy rose gall. *Ibid.*, Bull. 22, 441.

radicum Osten Sacken. Rose root gall. *Ibid.*, Bull. 22, 441.

rosæ Linnæus. Mossy rose gall. *Ibid.*, Bull. 22, 441.

Family IBALIIDÆ.

Ibalia Latreille.

maculipennis Haldeman. Conn. Geol. Nat. Hist. Surv., Bull. 22, 442.

Family MYRMARIDÆ.

Anaphes Haliday.

conotracheli Girault. *Anaphoidea.* Jour. N. Y. Ent. Soc. xviii, 246. Conn. Geol. Nat. Hist. Surv., Bull. 22, 447.

pratensis Fœrster. Can. Ent., 44, 88.

Family TETRASTICHIDÆ.

Tetrastichus Haliday.

malacosomæ Girault. Insec. Insc. Menstr. iv, 110.

sp. reared from coccids.

sp. reared from *Diastrophus cuscutæformis.*

Family ENTEDONTIDÆ.

Pleurotropis Fœrster.

lithocolletidis Ashmead. Proc. U. S. Nat. Mus., 43, 178.

tarsalis Ashmead. *Ibid.*, 43, 178.

Closterocerus Westwood.

tricinctus Ashmead. *Entedon* Dalman. Conn. Geol. Nat. Hist. Surv., Bull. 22, 458. (C.D.J.)

Family EULOPHIDÆ.*

Sympiesis Fœrster.

massasoit Crawford. Proc. U. S. Nat. Mus., 45, 258.

nigrifemora Ashmead. *Systomspiesis.* Conn. Geol. Nat. Hist. Surv., Bull. 22, 461.

Eulophus Geoffroy.

sp.

Family ELASMIDÆ.

Elasmus Westwood.

atratus Howard. Conn. Geol. Nat. Hist. Surv., Bull. 22, 464.

* See also appendix.

Family ELACHERTIDÆ.

Cirrospilus Westwood.

flavicinctus Riley. Conn. Geol. Nat. Hist. Surv., Bull. 22, 465.
marylandi Girault. Descr. Hymenop. Chalcid., 4.

Family PTEROMALIDÆ.

Pteromalus Swederus.

boucheanus Ratzeburg. (Dibrachys). Conn. Geol. Nat. Hist. Surv., Bull. 22, 475.
nidulans (Fœrster) Thompson. *egregius* Fœrster. *Ibid.*, Bull. 22, 773.
tabacum Fitch. (Hypopteromalus). *Ibid.*, Bull. 22, 474.
verditer Norton. *Ibid.*, Bull. 22, 472.

Merisus Walker.

isosomatis Riley. Conn. Geol. Nat. Hist. Surv., Bull. 22, 478.

Pachyneuron Walker.

nigrocyaneum Norton. *Chiropachys nigrocyaneus.* Conn. Geol. Nat Hist. Surv., Bull. 22, 481.

Sphegigaster Spinola.

sp.

Family APHELINIDÆ.

Encarsia Fœrster.

luteola Howard. Bur. Ent., Tech. ser., i, 29: Conn. Geol. Nat. Hist. Surv., Bull. 22, 489.

Aphelinus Dalman.

mali Haldeman. Conn. Geol. Nat. Hist. Surv., Bull. 22, 490.

Prospaltella Ashmead.

perniciosi Tower. Parasite of the San José scale. Ann. Ent. Soc. Am., vi, 125.

Family ENCYRTIDÆ.

Blastothrix Mayr.

sericea Dalman. Conn. Geol. Nat. Hist. Surv., Bull. 22, 502.

Family EUPELMIDÆ.

Anastatus Motschulsky.

bifasciatus Fonscolombe. Bur. Ent., Bull. 91, 170.

Family CALLIMOMIDÆ.

Ormyrus Westwood.

sp.

Monodontomerus Westwood.

æreus Walker. Conn. Geol. Nat. Hist. Surv., Bull. 22, 514.

dentipes Boheman. Vet. Akad. Handl., 41, 23.

Syntomaspis Fœrster.

lazulella Ashmead. Conn. Geol. Nat. Hist. Surv., Bull. 22, 514.

Callimome Spinola.

brevicauda Osten Sacken. *Torymus*. Conn. Geol. Nat. Hist. Surv., Bull. 22, 515.

flavicoxa Osten Sacken. *Torymus*. *Ibid.*, Bull. 22. 515.

sp. *Torymus*.

Family MISCOGASTERIDÆ.

Megorismus Walker.

fletcheri Crawford. Conn. Geol. Nat. Hist. Surv., Bull. 22, 773.

Family EURYTOMIDÆ.

Brucophagus Ashmead.

funebris Howard. Clover-seed Chalcis. Conn. Geol. Nat. Hist. Surv., Bull. 22, 520.

Eurytoma Illiger.

diastrophi Walsh. Conn. Geol. Nat. Hist. Surv., Bull. 22, 521.

pissodis Girault. Bull. Brook. Ent. Soc., xii, 88.

Isosoma Walker.

sp.

Evoxysoma Ashmead.

vitis Saunders. Conn. Geol. Nat. Hist. Surv., Bull. 22, 523.

Family PERILAMPIDÆ.

Perilampus Latreille.

hyalinus Say. *Cyaneus.* Conn. Geol. Nat. Hist. Surv., Bull. 22, 524.

platygaster Say. *Ibid.,* Bull. 22, 524.

Family CHALCIDIDÆ.

Smicra Spinola.

rufofemorata Cresson. Conn. Geol. Nat. Hist. Surv., Bull. 22, 526.

Spilochalcis Thomson.

mariæ Riley. Conn. Geol. Nat. Hist. Surv., Bull. 22, 527.

torvina Cresson. *Ibid.,* Bull. 22, 527.

Eusayia Ashmead.

debilis Say. *Sayiella. Chalcis.* Compl. Writ., ii, 720.

Chalcis Fabricius.

ovata Say. Conn. Geol. Nat. Hist. Surv., Bull. 22, 528. (A.E.V.)

Family LEUCOSPIDÆ.

Leucospis Fabricius.

affinis Say. Conn. Geol. Nat. Hist. Surv., Bull. 22, 528.

Family PLATYGASTRIDÆ.

Anopedius Fœrster.

error Fitch. Conn. Geol. Nat. Hist. Surv., Bull. 22, 533.

Polygnotus Fœrster.

striaticeps Ashmead. Conn. Geol. Nat. Hist. Surv., Bull. 22, 537.

Isocybus Fœrster.

pallipes Say. Conn. Geol. Nat. Hist. Surv., Bull. 22, 541.

Family SCELIONIDÆ.

Telenomus Haliday.

coloradensis Crawford. Proc. Wash. Ent. Soc., xi, 206.

Prosacantha Nees.

marylandica Ashmead. Conn. Geol. Nat. Hist. Surv., Bull. 22, 552.

Teleas Latreille.

coxalis Ashmead. Conn. Geol. Nat. Hist. Surv., Bull. 22, 553.

Caloteleia Westwood.

marlatti Ashmead. Conn. Geol. Nat. Hist. Surv., Bull. 22, 554.

Idris Fœrster.

nigricornis Brues. Conn. Geol. Nat. Hist. Surv., Bull. 22, 555. (W.M.W.)

Scelio Latreille.

hyalinipennis Ashmead. Conn. Geol. Nat. Hist. Surv., Bull. 22, 556.

ovivorus Riley. *Ibid.*, Bull. 22, 556. (W.H.P.)

Family CERAPHRONIDÆ.

Conostigmus Dahlbom.

Megaspilus Westwood.

schwarzi Ashmead. Conn. Geol. Nat. Hist. Surv., Bull. 22, 559.

Eumegaspilus Ashmead.

erythrothorax Ashmead. Conn. Geol. Nat. Hist. Surv., Bull. 22, 559. (W.M.W.)

Family DIAPRIIDÆ.

Entomacis Fœrster.

ambigua Brues. *Hemilexodes.* Conn. Geol. Nat. Hist. Surv., Bull. 22, 563.

Galesus Curtis.

vierecki Brues. Conn. Geol. Nat. Hist. Surv., Bull. 22, 564.

Diapria Latreille.

conica Fabricius. Conn. Geol. Nat. Hist. Surv., Bull. 22, 565. (W.H.P.)

Family BELYTIDÆ.

Leptorhaptus Fœrster.

conicus Ashmead. Conn. Geol. Nat. Hist. Surv., Bull. 22, 570.

Family SERPHIDÆ.

Disogmus Fœrster.

obsoletus Brues. Conn. Geol. Nat. Hist. Surv., Bull. 22, 573.

Serphus Schrank.

californicus Holmgren. *Proctotrypes.* Conn. Geol. Nat. Hist. Surv., Bull. 22, 575.

carolinensis Ashmead. *Ibid.,* Bull. 22. 575.

caudatus Say. *Ibid.,* Bull. 22, 574.

melliventris Ashmead. *Ibid.,* Bull. 22, 575.

quadriceps Ashmead. Ibid., Bull. 22, 576.

Exallonyx Kieffer.

pallidicornis Brues. Jour. N. Y. Ent. Soc., xxvii, 14.

Family HELORIDÆ.

Helorus Latreille.

paradoxus Provancher. Conn. Geol. Nat. Hist. Surv., Bull. 22, 576.

Family PELECINIDÆ.

Pelecinus Latreille.

polyturator Drury. Conn. Geol. Nat. Hist. Surv., Bull. 22, 576.

Family FORMICIDÆ.

Stigmatomma Roger.

pallipes Haldeman. Conn. Geol. Nat. Hist. Surv., Bull. 22, 581.

Ponera Latreille.

coarctata pennsylvanica (Buckley) Emery. Conn. Geol. Nat. Hist. Surv., Bull. 22, 581. (W.M.W.)

Myrmecina Curtis.

graminicola americana Emery var. **brevispinosa** Emery. Conn. Geol. Nat. Hist. Surv., Bull. 22, 584. (W.M.W.)

Monomorium Mayr.

minutum Mayr var. **minimum** (Buckley) Emery. Conn. Geol. Nat. Hist. Surv., Bull. 22, 584.

pharaonis Linnæus. Little red house ant. *Ibid.*, Bull. 22, 584.

Solenopsis Westwood.

molesta Say. Conn. Geol. Nat. Hist. Surv., Bull. 22, 584.

Pheidole Westwood.

pilifera Roger. Conn. Geol. Nat. Hist. Surv., Bull. 22, 584.

Crematogaster Lund.

lineolatus Say. Conn. Geol. Nat. Hist. Surv., Bull. 22, 585.

lineolatus var. **cerasi** Fitch. *Ibid.*, Bull. 22, 585. (W.M.W.)

Stenamma Mayr.

brevicorne Mayr. Conn. Geol. Nat. Hist. Surv., Bull. 22, 585. (W.M.W.)

Aphænogaster Mayr.

fulva Roger. Conn. Geol. Nat. Hist. Surv., Bull. 22, 585. (W.M.W.)

fulva aquia (Buckley) Emery. *Ibid.*, Bull. 22, 586.

fulva aquia var. **picea** Emery. *Ibid.*, Bull. 22, 586. (W.M.W.)

mariæ Forel. *Ibid.*, Bull. 22, 585. (W.M.W.)

tennesseensis Mayr. *Ibid.*, Bull. 22, 585. (W.M.W.)

treatæ Forel. *Ibid.*, Bull. 22, 585.

Myrmica Latreille.

punctiventris Roger. Conn. Geol. Nat. Hist. Surv., Bull. 22, 587. (W.M.W.)

rubra brevinodis Emery var. **canadensis** Wheeler. *Ibid.*, Bull. 22, 587. (W.M.W.)

rubra scabrinodis Nylander var. **fracticornis** Emery. *Ibid.*, Bull. 22, 587.

rubra scabrinodis var. **sabuleti** Meinert. *Ibid.*, Bull. 22, 587.

rubra scabrinodis var. **schencki** Emery. *Ibid.*, Bull. 22, 587.

Leptothorax Mayr.

acervorum canadensis Provancher. Conn. Geol. Nat. Hist. Surv., Bull. 22, 588. (W.M.W.)

curvispinosus Mayr. *Ibid.*, Bull. 22, 588.

curvispinosus var. **ambiguus** Emery. *Ibid.*, Bull. 22, 589.

emersoni Wheeler. *Ibid.*, Bull. 22, 588. (W.M.W.)

longispinosus Roger. *Ibid.*, Bull. 22, 558. (W.M.W.)

Dolichoderus Lund.

mariæ Forel. Conn. Geol. Nat. Hist. Surv., Bull. 22, 589.

plagiatus Mayr. *Ibid.*, Bull. 22, 590.

Tapinoma Fœrster.

sessile Say. Conn. Geol. Nat. Hist. Surv., Bull. 22, 590.

Brachymyrmex Mayr.

heeri depilis Emery. Conn. Geol. Nat. Hist. Surv., Bull. 22, 591. (W.M.W.)

Prenolepis Mayr.

imparis Say. *Nylanderia.* Conn. Geol. Nat. Hist. Surv., Bull. 22, 591.

imparis var. **minuta** Emery. *Nylanderia. Ibid.*, Bull. 22, 591.

Formicina Schuckard.

Lasius Fabricius.

brevicornis Emery. Conn. Geol. Nat. Hist. Surv., Bull. 22, 593.

claviger Roger. **(Acanthomyops).** *Ibid.*, Bull. 22, 594. (W.M.W.)

flavus nearcticus Wheeler. *Ibid.*, Bull. 22, 593. (W.M.W.)

interjectus Mayr. **(Acanthomyops).** *Ibid.*, Bull. 22, 594. (W.M.W.)

latipes Walsh. **(Acanthomyops).** *Ibid.*, Bull. 22, 594.

niger Linnæus var. **americanus** Emery. Garden ant. *Ibid.*, Bull. 22, 592.

niger var. **neoniger** Emery. *Ibid.*, Bull. 22, 593.

umbratus mixtus Nylander var. **aphidicola** Walsh. *Ibid.*, Bull. 22, 593.

umbratus mixtus var. **speculiventris** Emery. *Ibid.*, Bull. 22, 593. (W.M.W.)

Formica Latreille.

difficilis Emery var. consocians Wheeler. Conn. Geol. Nat. Hist. Surv., Bull. 22, 595. (W.M.W.)

exsectoides Forel. *Ibid.*, Bull. 22, 595.

fusca Linnæus var. subænescens Emery. *Ibid.*, Bull. 22, 596. (W.M.W.)

fusca var. subsericea Say. Silky ant. *Ibid.*, Bull. 22, 596.

nepticula Wheeler. *Ibid.*, Bull. 22, 595. (W.M.W.)

pallide-fulva nitidiventris Emery. *Ibid.*, Bull. 22, 595.

pallide-fulva schaufussi Mayr. *Ibid.*, Bull. 22, 595.

pallide-fulva schaufussi var. incerta Emery. *Ibid.*, Bull. 22, 595.

rufa integra Nylander. *Ibid.*, Bull. 22, 595. (W.M.W.)

rufa obscuriventris Mayr. *Ibid.*, Bull. 22, 595. (W.M.W.)

sanguinea aserva Forel. *Ibid.*, Bull. 22, 595. (W.M.W.)

sanguinea rubicunda Emery. *Ibid.*, Bull. 22, 595. (W.M.W.)

sanguinea rubicunda var. subintegra Emery. *Ibid.*, Bull. 22, 595.

subpolita Mayr. *Ibid.*, Bull. 22, 596. (G.M.)

subpolita var. neogagates Emery. *Ibid.*, Bull. 22, 596.

truncicola Nylander, subspecies obscuriventris Mayr. *Ibid.*, Bull. 22, 595.

Polyergus Latreille.

lucidus Mayr. Conn. Geol. Nat. Hist Surv., Bull. 22, 599. (G.M.)

Camponotus Mayr.

castaneus Latreille. Conn. Geol. Nat. Hist. Surv., Bull. 22, 600.

castaneus, subspecies americanus Mayr. *Ibid.*, Bull. 22, 600.

fallax Nylander var. nearcticus Emery. *Ibid.*, Bull. 22, 600.

herculeanus ligniperdus Latreille var. novæboracensis *Fitch. Ibid.*, Bull. 22, 600.

herculeanus pennsylvanicus DeGeer. Carpenter Ant. *Ibid.* Bull. 22, 600.

herculeanus pennsylvanicus var. ferrugineus Fabricius. *Ibid.*, Bull. 22, 600.

Family CHRYSIDIDÆ.

Omalus Jurine.

irridescens Norton. Conn. Geol. Nat. Hist. Surv., Bull. 22, 602.
sinuosus Say. *Ibid.*, Bull. 22, 602.

Notozus Fœrster.

marginatus Patton. Conn. Geol. Nat. Hist. Surv., Bull. 22, 603.

Hedychridium Latreille.

dimidiatum Say. Conn. Geol. Nat. Hist. Surv., Bull. 22, 603.

Hedychrum Latreille.

obsoletum Say. Conn. Geol. Nat. Hist. Surv., Bull. 22, 603,
violaceum Brullé. *Ibid.*, Bull. 22, 603.

Chrysis Linnæus.

cærulans Fabricius. (Tetrachrysis). Conn. Geol. Nat. Hist. Surv., Bull. 22, 604.
nitidula Fabricius. (Tetrachrysis). *Ibid.*, Bull. 22, 604.
parvula Fabricius. (Trichrysis). *Ibid.*, Bull. 22, 604.
verticalis Patton. (Chrysogona). *Ibid.*, Bull. 22, 604.

Family BETHYLIDÆ.

Pristocera Klug.

armifera Say. Conn. Geol. Nat. Hist. Surv., Bull. 22, 609.

Lælius Ashmead.

tricarinatus Ashmead. Conn. Geol. Nat. Hist. Surv., Bull. 22, 610.

Paralælius Kieffer.

pedatus Say. *Bethylus.* Conn. Geol. Nat. Hist. Surv., Bull. 22, 610.

Epyrus Westwood.

rufipes Say. Conn. Geol. Nat. Hist. Surv., Bull. 22, 611.

Rhabdepyris Kieffer.

occidentalis Ashmead. Conn. Geol. Nat. Hist. Surv., Bull. 22, 612.

Parasierola Cameron.

cellularis Say. Conn. Geol. Nat. Hist. Surv., Bull. 22, 612.

Family DRYINIDÆ.

Gonatopus Ljungh.

contortulus Patton. Conn. Geol. Nat. Hist. Surv., Bull. 22, 614. (W.H.P.)

Aphelopus Dalman.

americanus Ashmead. Conn. Geol. Nat. Hist. Surv., Bull. 22, 615.

Family SCOLIIDÆ.

Scolia Fabricius.

bicincta Fabricius. Conn. Geol. Nat. Hist. Surv., Bull. 22, 616.

Campsomeris LePeletier.

plumipes Drury. *Elis.* Conn. Geol. Nat. Hist. Surv., Bull. 22, 617.

Elis Fabricius.

interrupta Say. *Plesia. Myzine hamata.* Conn. Geol. Nat. Hist Surv., Bull. 22, 617.

quinquecincta Fabricius. *Plesia. Myzine sexcincta. Ibid.*, Bull. 22, 617.

Sierolomorpha Ashmead.

ambigua Ashmead. Conn. Geol. Nat. Hist. Surv., Bull. 22, 618.

Tiphia Fabricius.

brunneicornis Viereck. Conn. Geol. Nat. Hist. Surv., Bull. 22, 619.

egregia Viereck. *Ibid.*, Bull. 22, 619.

inornata Say. *Ibid.*, Bull. 22, 619.

punctata Robertson. *Ibid.*, Bull. 22, 619.

relativa Viereck. *Ibid.*, Bull. 22, 619.

waldeni Viereck. *Ibid.*, Bull. 22, 619.

Family SAPYGIDÆ.

Sapyga Latreille.

centrata Say. Conn. Geol. Nat. Hist. Surv., Bull. 22, 620.

Family METHOCIDÆ.

Methoca Latreille.

stygia Say. Conn. Geol. Nat. Hist. Surv., Bull. 22, 620.

Family MYRMOSIDÆ.

Myrmosa Latreille.

unicolor Say. Conn. Geol. Nat. Hist. Surv., Bull. 22, 621.

Family MUTILLIDÆ.

Pseudomethoca Ashmead.

canadensis Blake. Conn. Geol. Nat. Hist. Surv., Bull. 22, 622.

Nomiæphagus Ashmead.

simillimus Smith. *sanbornii.* Conn. Geol. Nat. Hist. Surv., Bull. 22, 623.

Dasymutilla Ashmead.

cariniceps Fox. *scrobinata* Rohwer. *Ibid.,* Bull. 22, 623.
castor Blake. Conn. Geol. Nat. Hist. Surv., Bull. 22, 624.
cypris Blake. *Ibid.,* Bull. 22, 623.
ferrugata Fabricius. *Ibid.,* Bull. 22, 623.
gibbosa Say. *Ibid.,* Bull. 22, 624.
lepeletierii Fox *harmoniiformis* Rohwer. *Ibid.,* Bull. 22, 624 (A.B.C.).
macra Cresson. *Ibid.,* Bull. 22, 624.
occidentalis Linnæus. *Ibid.,* Bull. 22, 624.
vesta Cresson var. **zella** Rohwer. *champlaini* Rohwer. *Ibid.,* Bull. 22, 623.

Ephuta Say.

scrupea Say. Conn. Geol. Nat. Hist. Surv., Bull. 22, 625.

Timulla Ashmead.

hexagona Say. Conn. Geol. Nat. Hist. Surv., Bull. 22, 625.
ornativentris Cresson. *Ibid.,* Bull. 22, 625.

Family PSAMMOCHARIDÆ.

Ceropales Latreille.

bipunctata Say. Conn. Geol. Nat. Hist. Surv., Bull. 22, 626.
fraterna Smith. *Ibid.*, Bull. 22, 626.
longipes Smith. *Ibid.*, Bull. 22, 626.
robinsoni Cresson. *Ibid.*, Bull. 22, 626.

Pseudagenia Kohl.

architecta Say. Conn. Geol. Nat. Hist. Surv., Bull. 22, 627.

Ageniella Banks.

calcarata Cresson. Conn. Geol. Nat. Hist. Surv., Bull. 22, 628.
iridipennis Cresson. *Ibid.*, Bull. 22, 628.

Priocnemis Schiödte.

alienata Smith. Conn. Geol. Nat. Hist. Surv., Bull. 22, 628.
conica Say. *Ibid.*, Bull. 22, 628.
germana Cresson. *Ibid.*, Bull. 22, 628.
notha Cresson. *Ibid.*, Bull. 22, 628.

Planiceps.

niger Cresson. Trans. Am. Ent. Soc., i, 136.

Episyron Schiödte.

biguttatus Fabricius. Conn. Geol. Nat. Hist. Surv., Bull. 22, 631.
quinque-notatus Say. 5-*notatus*. *Ibid.*, Bull. 22, 631.

Aporinellus Banks.

fasciatus Smith. Conn. Geol. Nat. Hist. Surv., Bull. 22, 631.

Pompiloides Radoszkowski.

argenteus Cresson. Conn. Geol. Nat. Hist. Surv., Bull. 22, 631.
cylindricus Cresson. *Ibid.*, Bull. 22, 631.
marginatus Say. *Ibid.*, Bull. 22, 631.
subviolaceus Cresson. *Ibid.*, Bull. 22, 631.
tropicus Linnæus. *Ibid.*, Bull. 22, 631.

Sericopompilus Ashmead.

humilis Cresson. Conn. Geol. Nat. Hist. Surv., Bull. 22, 632.

Arachnophroctonus Ashmead.

interruptus Say. Conn. Geol. Nat. Hist. Surv., Bull. *22*, 632.

Psammochares Latreille.

æthiops Cresson. (Lophopompilus). Conn. Geol. Nat. Hist. Surv., Bull. *22*, 633.

atrox Dahlbom. (Lophopompilus). *Ibid.*, Bull. *22*, 633.

luctuosus Cresson. (Psammochares). *Ibid.*, Bull. *22*, 633.

philadelphicus LePeletier. *Ibid.*, Bull. *22*, 633.

relativus Fox. (Psammochares). *Ibid.*, Bull. *22*, 633. (H.W.W.)

scelestus Cresson. (Psammochares). *Ibid.*, Bull. *22*, 633.

tenebrosus Cresson. (Psammochares). *Ibid.*, Bull. *22*, 633.

virginiensis Cresson. (Anoplius). *Ibid.*, Bull. *22*, 633.

Family EUMENIDÆ.

Zethus Fabricius.

spinipes Say. Conn. Geol. Nat. Hist. Surv., Bull. *22*, 634.

Eumenes Fabricius.

fraternus Say. Potter wasp. Conn. Geol. Nat. Hist. Surv., Bull. *22*, 634.

Monobia Saussure.

quadridens Linnæus. Conn. Geol. Nat. Hist. Surv., Bull. *22*, 635.

Nortonia Saussure.

symmorpha Saussure. Conn. Geol. Nat. Hist. Surv., Bull. *22*, 635.

Odynerus Latreille.

albomarginatus Saussure. (Symmorphus). Conn. Geol. Nat. Hist Surv., Bull. *22*, 636.

anormis Say. *Ibid.*, Bull. *22*, 637. (H.W.W.)

birenimaculatus Saussure. (Ancistrocerus). *Ibid.*, Bull. *22*, 636.

boscii LePeletier. *Ibid.*, Bull. *22*, 637.

campestris Saussure. (Ancistrocerus). *Ibid.*, Bull. *22*, 636. (H.W.W.)

capra Saussure. (Ancistrocerus). *Ibid.*, Bull. *22*, 636.

catskilli Saussure. (Ancistrocerus). *Ibid.*, Bull. *22*, 636.

collega Saussure. *Ibid.*, Bull. 22, 637.
cristatus Saussure. (**Symmorphus**). *Ibid.*, Bull. 22, 636.
debilis Saussure. (**Symmorphus**). *Ibid.*, Bull 22, 636.
dorsalis Fabricius. *Ibid.*, Bull. 22, 637.
foraminatus Saussure. *Ibid.*, Bull. 22, 637.
leucomelas Saussure. *Ibid.*, Bull. 22, 637.
nortonianus Saussure. *Ibid.*, Bull. 22, 637.
pedestris Saussure. *Ibid.*, Bull. 22, 637.
pennsylvanicus Saussure. *Ibid.*, Bull. 22, 637.
spinolæ Saussure. (**Ancistrocerus**). *Ibid.*, Bull. 22, 636.
tigris Saussure. (**Ancistrocerus**). *Ibid.*, Bull. 22, 636.
unifasciatus Saussure. (**Ancistrocerus**). *Ibid.*, Bull. 22, 636.
vagus Saussure. *Ibid.*, Bull. 22, 637.
waldeni Viereck. (**Ancistrocerus**). *Ibid.*, Bull. 22, 636.

Family VESPIDÆ.

Vespa Linnæus.

crabro Linnæus. Giant hornet. Conn. Geol. Nat. Hist. Surv., Bull. 22, 641.

Vespula Thompson.

consobrina Saussure. (**Vespa**). Conn. Geol. Nat. Hist. Surv., Bull. 22, 643.
diabolica Saussure. (**Dolichovespula**). *Vespa.* Common yellow jacket. *Ibid.*, Bull. 22, 642.
germanica Fabricius var. **pennsylvanica** Saussure. (**Vespa**). Common yellow jacket. *Ibid.*, Bull. 22, 643.
maculata Linnæus. (**Dolichovespula**). *Vespa.* White-faced hornet. *Ibid.*, Bull. 22, 642.
vulgaris Linnæus var. **communis** Saussure. *Vespa. Ibid.*, Bull. 22, 643.

Polistes Latreille.

annularis Linnæus. Conn. Geol. Nat. Hist. Surv., Bull. 22, 644.
pallipes LePeletier. Common wasp. *Ibid.*, Bull. 22, 644.
variatus Cresson. *Ibid.*, Bull. 22, 644.

Family AMPULICIDÆ.

Rhinopsis Westwood.

melanognathus Rohwer. Conn. Geol. Nat. Hist. Surv., Bull. 22, 652.

Family SPHECIDÆ.

Alyson Jurine.

oppositus Say. Conn. Geol. Nat. Hist. Surv., Bull. 22, 654.

Nysson Latreille.

æqualis Say. Conn. Geol. Nat. Hist. Surv., Bull. 22, 655.
lateralis Packard. *Ibid.*, Bull. 22, 655.
tramosericus Viereck. *Ibid.*, Bull. 22, 655.

Paramellinus Rohwer.

bipunctatus Say. Conn. Geol. Nat. Hist. Surv., Bull. 22, 656.

Hoplisus LePeletier.

costalis Cresson. *Gorytes.* Conn. Geol. Nat. Hist. Surv., Bull. 22, 657.
fuscus Taschenberg. *Gorytes. Ibid.*, Bull. 22, 656.
gracilis Patton. *Gorytes. Ibid.*, Bull. 22, 656.
nebulosus Packard. *Gorytes. Ibid.*, Bull. 22, 656.
phaleratus Say. *Gorytes. Ibid.*, Bull. 22, 656.

Psen Latreille.

cressoni Packard. **(Mimesa).** Conn. Geol. Nat. Hist. Surv., Bull. 22, 659.
pauper Packard. **(Mimesa).** *Ibid.*, Bull. 22, 659.

Oxybelus Latreille.

quadrinotatus Say. Conn. Geol. Nat. Hist. Surv., Bull. 22, 659.

Notoglossa Dahlbom.

emarginata Say. Conn. Geol. Nat. Hist. Surv., Bull. 22, 660.

Anacrabro Packard.

ocellatus Packard. Conn. Geol. Nat. Hist. Surv., Bull. 22, 661. (S.N.D.)

Lindenius LePeletier.

errans Fox. Conn. Geol. Nat. Hist. Surv., Bull. 22, 664.

Rhopalum Kirby.

pedicellatum Packard. Conn. Geol. Nat. Hist. Surv., Bull. 22, 664.

Solenius LePeletier.

bigeminus Packard. **(Protothyreopus).** Conn. Geol. Nat. Hist. Surv., Bull. 22, 668.

chrysargynus LePeletier. (Hypocrabro). *Ibid.*, Bull. 22, 669.
decemmaculatus Say. (Hypocrabro). *Ibid.*, Bull. 22, 669.
interruptus LePeletier. (Solenius). *Ibid.*, Bull. 22, 665.
obscurus Smith. (Clytochrysus). *Ibid.*, Bull. 22, 665.
producticollis Packard. (Solenius). *Ibid.*, Bull. 22, 666.
rufifemur Packard. (Protothyreopus). *Ibid.*, Bull. 22, 668.
sayi Cockerell. (Xestocrabro). *sexmaculatus*. *Ibid.*, Bull. 22, 667.
singularis Smith. (Lophocrabro). *Ibid.*, Bull. 22, 667. (W.F.)
stirpicola Packard. (Hypocrabro). *Ibid.*, Bull. 22, 668.

Crabro Fabricius.

advenus Smith. (Synothyreopus). Conn. Geol. Nat. Hist. Surv., Bull. 22, 670.
æqualis Fox. (Crabro). *Ibid.*, Bull. 22, 670.
argus Packard. (Crabro). *Ibid.*, Bull. 22, 670.
oblongus Packard. *Ibid.*, Bull. 22, 662.
tumidus Packard. (Synothreopus). *Ibid.*, Bull. 22, 670.
unicus Patton. *Ibid.*, Bull. 22, 663.

Aphilanthops Patton.

frigidus Smith. Conn. Geol. Nat. Hist. Surv., Bull. 22, 672.

Philanthus Fabricius.

bilunatus Cresson. Conn. Geol. Nat. Hist. Surv., Bull. 22, 673.
dubius Cresson. *Ibid.*, Bull. 22, 673.
politus Say. *Ibid.*, Bull. 22, 673.
punctatus Say. *Ibid.*, Bull. 22, 673.
sanbornii Cresson. *Ibid.*, Bull. 22, 673.
solivagus Say. *Ibid.*, Bull. 22, 673.

Trypoxylon Latreille.

clavatum Say. Conn. Geol. Nat. Hist. Surv., Bull. 22, 676.
excavatum Say. *Ibid.*, Bull. 22, 676.
frigidum Smith. *Ibid.*, Bull. 22, 676.
politum Say. *albitarse*. *Ibid.*, Bull. 22, 676.
tridentatum Packard. *Ibid.*, Bull. 22, 676.

Chlorion Latreille.

auripes Fernald. (Isodontia). Conn. Geol. Nat. Hist. Surv., Bull. 22, 679.

bifoveolatum Taschenberg. (Prionony**x**). *Ibid.*, Bull. 22, 679.
cyaneum Dahlbom. var. ærarium Patton. (Chlorion). *Ibid.*, Bull. 22, 679.
harrisi Fernald. (Isodontia). *Ibid.*, Bull. 22, 679.
ichneumoneum Linnæus. (Ammobia). *Ibid.*, Bull. 22, 680.
pennsylvanicum Linnæus. (Ammobia). *Ibid.*, Bull. 22, 680.

Sphex Linnæus.

argentatus Hart. Bull. Ill. State Lab. Nat. Hist., vii, 266.
arvensis Dahlbom. Conn. Geol. Nat. Hist. Surv., Bull. 22, 682.
aureonotata Cameron. Biol. Centr. Amer., Hymenop., ii, 7.
nigricans Dahlbom. Psyche, x, 157.
procerus Dahlbom. Conn. Geol. Nat. Hist. Surv., Bull. 22, 682.

Sceliphron Klug.

cyaneum Klug. *Chalybion cæruleum.* Conn. Geol. Nat. Hist. Surv., Bull. 22, 682.

Pelopæus Latreille.

cæmentarius Drury. Conn. Geol. Nat. Hist. Surv., Bull. 22, 682.

Lyroda Say.

subita Say. Conn. Geol. Nat. Hist. Surv., Bull. 22, 683.
triloba Say. *Ibid.*, Bull. 22, 683. (H.W.W.)

Notogonidea Rohwer.

argentata Beauvois. Conn. Geol. Nat. Hist. Surv., Bull. 22, 684.

Larropsis Patton.

distincta Smith. Conn. Geol. Nat. Hist. Surv., Bull. 22, 684.

Tachytes Panzer.

breviventris Cresson. Conn. Geol. Nat. Hist. Surv., Bull. 22, 686.
calcaratus Fox. *Ibid.*, Bull. 22, 686.
harpax Patton. *Ibid.*, Bull. 22, 686.

Tachysphex Kohl.

apicalis Fox. Conn. Geol. Nat. Hist. Surv., Bull. 22, 687.

Astata Latreille.

bicolor Say. Conn. Geol. Nat. Hist. Surv., Bull. 22, 688.
unicolor Say. *Ibid.*, Bull. 22, 688.

Stigmus Panzer.

americanus Packard. Conn. Geol. Nat. Hist. Surv., Bull. 22, 689.

Spilomena Shuckard.

pusilla Say. Conn. Geol. Nat. Hist. Surv., Bull. 22, 689.

Passalœcus Shuckard.

annulatus Say. Conn. Geol. Nat. Hist. Surv., Bull. 22, 689.

Pemphredon Latreille.

inornatus Say. Conn. Geol. Nat. Hist. Surv., Bull. 22, 690.
tenax Fox. *Ibid.*, Bull. 22, 690.

Plenoculus Fox.

atlanticus Viereck. Conn. Geol. Nat. Hist. Surv., Bull. 22, 691.

Family BEMBECIDÆ.

Sphecius Dahlbom.

speciosus Drury. Conn. Geol. Nat. Hist. Surv., Bull. 22, 692.

Microbembex Patton.

monodonta Say. Conn. Geol. Nat. Hist. Surv., Bull. 22, 693.

Bicyrtes Le Peletier.
Bembidula Burmeister.

quadrifasciata Say. Conn. Geol. Nat. Hist. Surv., Bull. 22, 693.
ventralis Say. *Ibid.*, Bull. 22, 693.

Bembix Fabricius.

spinolæ LePeletier. Conn. Geol. Nat. Hist. Surv., Bull. 22, 694.

Family CERCERIDÆ.

Eucerceris Cresson.

zonatus Say. Proc. Ent. Soc. Phila. v, 105.

Cerceris Latreille.

clypeata Dahlbom. Conn. Geol. Nat. Hist. Surv., Bull. 22, 695.
compar Cresson. *Ibid.*, Bull. 22, 695.
dentifrons Cresson. *Ibid.*, Bull. 22, 696. (J.A.H.)
deserta Say. *Ibid.*, Bull. 22, 695.

fasciola Cresson. *Ibid.*, Bull. 22, 695.
fulvipediculata Schletterer. *Ibid.*, Bull. 22, 695.
fumipennis Say. *Ibid.*, Bull. 22, 695.
imitatoria Schletterer. *Ibid.*, Bull. 22, 695.
robertsoni Fox. *Ibid.*, Bull. 22, 695. (S.N.D.)

Family HALICTIDAÆ.

Halictus Latreille.

albipennis Robertson. (Chloralictus). Conn. Geol. Nat. Hist. Surv., Bull. 22, 702.
arcuatus Robertson. (Evylæus). Ibid., Bull. 22, 701.
cæruleus Robertson. (Chloralictus). *Ibid.*, Bull. 22, 702.
cephalicus Robertson. (Paralictus). *Ibid.*, Bull. 22, 701.
confusus Robertson. (Oxystoglossa). *Augochlora. Ibid.*, Bull. 22, 701.
coriaceus Smith. (Lasioglossum). *Ibid.*, Bull. 22, 700.
cressoni Robertson. (Chloralictus). *Ibid.*, Bull. 22, 702.
foxi Robertson. (Evylæus). *Ibid.*, Bull. 22, 701.
lerouxi LePeletier. (Halictus). *Ibid.*, Bull. 22, 701.
ligatus Say. (Halictus.) *Ibid.*, Bull. 22, 701.
marinus Crawford. (Chloralictus). Ent. News. 15, 99.
nymphæarum Robertson. (Chloralictus). *palustris.* Conn. Geol. Nat. Hist. Surv., Bull. 22, 702.
obscurus Robertson. (Chloralictus). *Ibid.*, Bull. 22, 702.
pectoralis Smith. (Evylæus). *Ibid.*, Bull. 22, 701.
persimilis Viereck. (Oxystoglossa). *Augochlora. similis. Ibid.*, Bull. 22, 703.
pilosus Smith. (Chloralictus). *Ibid.*, Bull. 22, 701.
provancheri Dalla Torre. (Halictus). *fasciatus. Ibid.*, Bull. 22, 701.
purus Say. (Augochlora). *Oxystoglossa. Ibid.*, Bull. 22, 701. (H.W.W.)
quadrimaculatus Robertson. (Evylæus). *Ibid.*, Bull. 22, 701.
radiatus Say. (Agapostemon). *pulchra. Ibid.*, Bull. 22, 701.
sparsus Robertson. (Chloralictus). *Ibid.*, Bull. 22, 702.
splendens LePeletier. (Agapostemon). *Ibid.*, Bull. 22, 701.
tegularis Robertson. (Chloralictus). *Ibid.*, Bull. 22, 702.
truncatus Robertson. (Evylæus). *Ibid.*, Bull. 22, 701.

versatus Robertson. (Chloralictus). *Ibid.*, Bull. 22, 702.
vierecki Crawford. (Chloralictus). *nymphalis. Ibid.*, Bull. 22, 702.
virescens Fabricius. (Agapostemon). *nigricornis. viridulus* Authors. *Ibid.*, Bull. 22, 701.
viridissimus Viereck. (Augochlora). *viridula. Ibid.*, Bull. 22, 700.
zephyrus Smith. (Chloralictus). *Ibid.*, Bull. 22, 702.

Sphecodes Latreille.

arvensis Patton. (Drepanium). Conn. Geol. Nat. Hist. Surv., Bull. 22, 708.
confertus Say. (Drepanium). *falcifer. Ibid.*, Bull. 22, 708.
mandibularis Cresson. (Sphecodium). *Ibid.*, Bull. 22, 708.
minor Robertson. (Sphecodes). *Ibid.*, Bull. 22, 708.

Family ANDRENIDÆ.

Andrena Fabricius.

arabis Robertson. Conn. Geol. Nat. Hist. Surv., Bull. 22, 712.
asteris Robertson. *Ibid.*, Bull. 22, 713.
barbarica Viereck. Trans. Am. Ent. Soc., xliii, 369.
bisalicis Viereck. Conn. Geol. Nat. Hist. Surv., Bull. 22, 712.
braccata Viereck. *Ibid.*, Bull. 22, 713.
bradleyi Viereck. *Ibid.*, Bull. 22, 709.
canadensis Dalla Torre. *Ibid.*, Bull. 22, 712.
carlini Cockerell. *bicolor. Ibid.*, Bull. 22, 713.
claytoniæ Robertson. *Ibid.*, Bull. 22, 776.
cratægi Robertson. *Ibid.*, Bull. 22, 710.
cressoni Robertson. *Ibid.*, Bull. 22, 713.
erythrogastra Ashmead var. rhodura Cockerell. *Ibid.*, Bull. 22, 711.
flavoclypeata Smith. *bipunctata. Ibid.*, Bull. 22, 712.
forbesi Robertson. *Ibid.*, Bull. 22, 713.
fragilis Smith. *platyparis. Ibid.*, Bull. 22, 712.
geranii maculati Robertson. *Ibid.*, Bull. 22, 710.
hilaris Smith. *Ibid.*, Bull. 22, 713.
hippotes Robertson. *Ibid.*, Bull. 22, 713.
hirticincta Provancher. *americana. fimbriata. Ibid.*, Bull. 22, 710.

integra Smith. *lineata. Ibid.*, Bull. 22, 712.
krigiana Robertson. *Ibid.*, Bull. 22, 777. (E.J.S.M.)
mariæ Robertson var. concolor Robertson. *Ibid.*, Bull. 22, 713.
multiplicatiformis Viereck. *Ibid.*, Bull. 22, 714.
nasoni Robertson. *vestita. hartfordensis. Ibid.*, Bull. 22, 711.
nivalis Smith. *Ibid.*, Bull. 22, 711.
novæ-angliæ Viereck. *Ibid.*, Bull. 22, 711.
nubecula Smith. *Ibid.*, Bull. 22, 712.
obscura Robertson. *Ibid.*, Bull. 22, 714.
perplexa Smith var. viburnella Grænicher. *Ibid.*, Bull. 22, 712.
placida Smith. *macgillivrayi. Ibid.*, Bull. 22, 711.
pruni Robertson. *dunningi. Ibid.*, Bull. 22, 712.
robertsoni Dalla Torre. *scrotina. Ibid.*, Bull. 22, 712.
rugosa Robertson. *Ibid.*, Bull. 22, 714.
salictaria Robertson. *Ibid.*, Bull. 22, 711.
solidaginis Robertson. *Ibid.*, Bull. 22, 712.
spireana Robertson. *Ibid.*, Bull. 22, 714.
thaspii Grænicher. *mandibularis. Ibid.*, Bull. 22, 713.
vicina Smith. *Ibid.*, Bull. 22, 713.
victima Smith. *Ibid.*, Bull. 22, 715.
weedi Viereck. *Ibid.*, Bull. 22, 714.
wilkella Kirby. *winkleyi* Viereck. *Ibid., Bull.* 22, 712.
ziziæ Robertson. *Ibid.*, Bull. 22, 712.
ziziæformis Cockerell. Can. Ent., 49, 234.

Family DUFOUREIDÆ.

Halictoides Nylander.

novæangliæ Robertson. (Conohalictoides). Conn. Geol. Nat. Hist. Surv., Bull. 22, 720.

Family MACROPIDÆ.

Macropis Panzer.

ciliata Patton. Conn. Geol. Nat. Hist. Surv., Bull. 22, 720.
patellata Patton. *Ibid.*, Bull. 22, 720.

Family PANURGIDÆ.

Perdita Smith.

novæangliæ Viereck. Conn. Geol. Nat. Hist. Surv., Bull. 22, 721.
octomaculata Say. *Cockerellia. Ibid.,* Bull. 22, 721.

Panurginus Nylander.

asteris Robertson. Conn. Geol. Nat. Hist. Surv., Bull. 22, 721.
parvus Robertson. *Ibid.,* Bull. 22, 721.

Calliopsis Smith.

andreniformis Smith. Conn. Geol. Nat. Hist. Surv., Bull. 22, 722.

Family NOMADIDÆ.

Nomada Fabricius.

americana Kirby. (Centrias). Conn. Geol. Nat. Hist. Surv., Bull. 22, 723.
cuneata Robertson. (Gnathias). *Ibid.,* Bull. 22, 726.
denticulata Robertson. *Ibid.,* Bull. 22, 725.
illinoiensis Robertson. *Ibid.,* Bull. 22, 724. (H.W.W.)
imbricata Smith. (Holonomada). *Ibid.,* Bull. 22, 724.
incerta Cresson. (Centrias). *Ibid.,* Bull. 22, 724.
obliterata Cresson. (Heminomada). *Ibid.,* Bull. 22, 725.
pygmæa Cresson. *Ibid.,* Bull. 22, 726.
sayi Robertson. *Ibid.,* Bull. 22, 725.
vicina Cresson. *Ibid.,* Bull. 22, 724.

Epeoloides Giraud.

Viereckella Swenk.

pilosula Cresson. Conn. Geol. Nat. Hist. Surv., Bull. 22, 727. (E.L.D.)

Epeolus Latreille.

pusillus Cresson. Conn. Geol. Nat. Hist. Surv., Bull. 22, 728.

Triepeolus Robertson.

donatus Smith. Conn. Geol. Nat. Hist. Surv., Bull. 22, 729.
lunatus Say. *Ibid.,* Bull. 22, 730.

Holcopasites Ashmead.

Neopasites Ashmead.

illinoiensis Robertson. Conn. Geol. Nat. Hist. Surv., Bull. 22, 730.

Family EUCERIDÆ.

Mellissodes Latreille.

bimaculata LePeletier. Conn. Geol. Nat. Hist. Surv., Bull. 22, 731.
dentiventris Smith. *Ibid.*, Bull. 22, 732.
desponsa Smith. *Ibid.*, Bull. 22, 732.
perplexa Cresson. *Ibid.*, Bull. 22, 732.
rustica Say. *Ibid.*, Bull. 22, 731.

Tetralonia Spinola.

atriventris Smith. *Synhalonia.* Conn. Geol. Nat. Hist. Surv., Bull. 22, 733.

Xenoglossa Smith.

pruinosa Say. (Peponapis). Conn. Geol. Nat. Hist Surv., Bull. 22, 733.

Family ANTHOPHORIDÆ.

Anthophora Latreille.

floridana Smith. (Emphoropsis). Conn. Geol. Nat. Hist. Surv., Bull. 22, 735.
terminalis Cresson. (Clisodon). *Ibid.*, Bull. 22, 736.

Family HYLÆIDÆ.

Hylæus Fabricius.

Prosopis Fabricius.

ellipticus Cockerell. Conn. Geol. Nat. Hist. Surv., Bull. 22, 737.
modestus *Say. affinis. Ibid.*, Bull. 22, 738.
pygmæus Cockerell. *Ibid.*, Bull. 22, 737.
saniculæ Robertson. Can. Ent., xxxvi, 273.
ziziæ Robertson. *Ibid.*, Bull. 22, 737.

Family COLLETIDÆ.

Colletes Latreille.

æstivalis Patton. Conn. Geol. Nat. Hist. Surv., Bull. 22, 740.
compactus Cresson. *Ibid.*, Bull. 22, 739.

inæqualis Say. *Ibid.*, Bull. 22, 739.
validus Cresson. *Ibid.*, Bull. 22, 740.
sp. *Ibid.*, Bull. 22, 741.

Family STELIDIDÆ.

Stelis Panzer.

fœderalis Smith. (**Microstelis**). *nitida*. Conn. Geol. Nat. Hist. Surv., Bull. 22, 741.
lateralis Cresson. (**Microstelis**). *Ibid.*, Bull. 22, 741.

Family MEGACHILIDÆ.

Megachile Latreille.

brevis Say. (**Megachile**). Conn. Geol. Nat. Hist. Surv., Bull. 22, 743.
exclamans Viereck. (**Xanthosarus**). Ibid., Bull. 22, 743.
infragilis Cresson. (**Anthemois**). *Ibid.*, Bull. 22, 743.
latimana Say. (**Xanthosarus**). *femoratus*. *Ibid.*, Bull. 22, 744.
mendica Cresson. (**Megachile**). *Ibid.*, Bull. 22, 745.
vidua Smith. (**Delomegachile**). *frigida*. *Ibid.*, Bull. 22, 743. (H.W.W.)

Cœlioxys Latreille.

dubitata Smith. *rufitarsis*. Conn. Geol. Nat. Hist. Surv., Bull. 22, 746.
dubitata var. **melanopoda** Viereck. *Ibid.*, Bull. 22, 747.
mœsta Cresson. *Ibid.*, Bull. 22, 746.
octodentata Say. *Ibid.*, Bull. 22, 747.
sayi Robertson. *Ibid.*, Bull. 22, 747.

Osmia Panzer.

albiventris Cresson. (**Leucosmia**). Conn. Geol. Nat. Hist. Surv., Bull. 22, 749.
atriventris Cresson. (**Osmia**). *Ibid.*, Bull. 22, 749.
conjuncta Cresson. (**Diceratosmia**). *Ibid.*, Bull. 22, 748.
distincta Cresson. (**Nothosmia**). *Ibid.*, Bull. 22, 748.
lignaria Say. (**Ceratosmia**). *Ibid.*, Bull. 22, 748.
major Robertson. (**Osmia**). *Ibid.*, Bull. 22, 749.
pumila Cresson. (**Osmia**). *Ibid.*, Bull. 22, 749.
purpurea Cresson. (**Osmia**). Ibid., Bull. 22, 748.
rustica Cresson. (**Osmia**). *Ibid.*, Bull. 22, 749. (H.W.W.)

Andronicus Cresson.

cylindricus Cresson. Conn. Geol. Nat. Hist. Surv., Bull. 22, 751.
pilosifrons Cresson. (Alcidamea). *Ibid.*, Bull. 22, 751.
productus Cresson. (Alcidamea). *Ibid.*, Bull. 22, 751.
truncatus Cresson. (Alcidamia). *Ibid.*, Bull. 22, 751.

Heriades Spinola.

carinatus Cresson. (Trypetes). Conn. Geol. Nat. Hist. Surv., Bull. 22, 751.

Dianthidium Cockerell.

notatum Latreille. Conn. Geol. Nat. Hist. Surv., Bull. 22, 752.
simile Cresson. *Ibid.*, Bull. 22, 752.

Family CERATINIDÆ.

Ceratina Latreille.

dupla Say. Conn. Geol. Nat. Hist. Surv., Bull. 22, 753.
metallica H. S. Smith. *Ibid.*, Bull. 22, 753.

Family XYLOCOPIDÆ.

Xylocopa Latreille.

virginica Drury. Conn. Geol. Nat. Hist. Surv., Bull. 22, 753.

Family APIDÆ.

Bremus Panzer.

Bombus Latreille.

affinis Cresson. Conn. Geol. Nat. Hist. Surv., Bull. 22, 755.
bimaculatus Cresson. *Ibid.*, Bull. 22, 757.
fervidus Fabricius. *Ibid.*, Bull. 22, 755.
impatiens Harris. *virginicus*. *Ibid.*, Bull. 22, 756.
pennsylvanicus DeGeer. *americanorum* DeGeer. *Ibid.*, Bull. 22, 755.
perplexus Cresson. *Ibid.*, Bull. 22, 756.
ternarius Say. *Ibid.*, Bull. 22, 756.
terricola Kirby. *Ibid.*, Bull. 22, 755.
vagans Smith. *Ibid.*, Bull. 22, 755.
vagans var. consimilis Cresson. *Ibid.*, Bull. 22, 756.

Bombias Robertson.

auricomus Robertson. Conn. Geol. Nat. Hist. Surv., Bull. 22, 758. (H.W.W.)

separatus Cresson. *Ibid.*, Bull. 22, 758.

Psithyrus LePeletier.

ashtoni Cresson. Conn. Geol. Nat. Hist. Surv., Bull. 22, 759.

laboriosus Fabricius. *citrinus*. *Ibid.*, Bull. 22, 759.

laboriosus var. **contiguus** Cresson. *Ibid.*, Bull. 22, 760.

variabilis Cresson. *Ibid.*, Bull. 22, 759.

Apis Linnæus.

mellifera Linnæus. *mellifica*. Honey bee. Conn. Geol. Nat. Hist. Surv., Bull. 22, 760.

APPENDIX

After the list was set up in type and arranged in the preceding pages, a number of additional genera and species were recognized or were reported from Connecticut material. Some of these additions have been included in the pages where they belong, but others cannot be inserted without entirely rearranging the matter on many pages. It has also seemed necessary to use certain references which are not explained in the Key on page 13; these references and the additional genera and species are given in the following pages: —

KEY TO ADDITIONAL REFERENCES

(See Page 13.)

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ADDITIONS TO CHECK LIST

The following species have been recorded from Connecticut and should be added to the list given on the foregoing pages: —

Order **ODONATA.**

Family AGRIONIDÆ.

(See page 33.)

Argia Rambur.

translata Hagen. Biol. Centr. Am., Neuroptera, 76, 1901.

Family LIBELLULIDÆ.

(See page 35)

Somatochlora Selys.

(See page 36)

linearis Hagen. Trans. Am. Ent. Soc., xx, 253.

Order **HEMIPTERA.**

Family CICADELLIDÆ.

(See page 47)

Idiocerus Lewis.

cognatus Fieber. Ent. Am., vi, 226.

duzeei Provancher. *perplexus* Gillette and Baker. Hemip. Col., 78.

Macropsis Lewis.

gleditschiæ Osborn and Ball. *Pediopsis.* Tenn. State Bd. Ent., Bull. 17, 16.

Oncopsis Burmeister.

pruni Provancher. Me. Agr. Expt. Sta., Bull. 238, 87.

Aucucephalus Germar.

nervosus Schrank. *striatus* Linnæus. Me. Agr. Expt. Sta., Bull. 238, 107.

Xestocephalus Van Duzee.

pulicarius Van Duzee. Tenn. State Bd. Ent., Bull. 17, 35.
superbus Provancher. *fulvocapitatus* Van Duzee. *Ibid.*, Bull. 17, 35.

Parabolocratus Fieber.

major Osborn. Me. Agr. Expt. Sta., Bull. 238, 110.

Platymetopius Burmeister.

fulvus Osborn. Rept. N. Y. State Ent., 20, 519.

Deltocephalus Burmeister.

areolatus Ball. Can. Ent., xxxi, 188.

Euscelis Brullé.

Athysanus.

cuneatus Sanders and DeLong. Penn. Bur. Pl. Ind., Tech. Bull. 1, 17.
parallelus Van Duzee. Can. Ent., xxiii, 169.

Gypona Germar.

pectoralis Spangberg. *albimarginata* Woodworth. *hullensis* Provancher. Proc. U. S. Nat. Mus., 56, 94.

Thamnotettix Zetterstedt.

inornatus Van Duzee. Tenn. State Bd. Ent., Bull. 17, 81.
morsei Osborn. Me. Agr. Expt. Sta., Bull. 238, 134.

Cicadula Zetterstedt.

lepida Van Duzee. Tenn. State Bd. Ent., Bull. 17, 94.
slossoni Van Duzee. Can. Ent., xxv, 281.

Empoasca Walsh.

aureo-viridis Uhler. Tenn. State Bd. Ent., Bull. 17, 100.
obtusa Walsh. *Ibid.*, Bull. 17, 100.

Erythroneura Fitch.

obliqua Say var. **dorsalis** Gillette. Tenn. State Bd. Ent., Bull. 17, 105.
trifasciata Say. *Ibid.*, Bull. 17, 106.
vitis Harris var. **stricta** McAtee. Trans. Am. Ent. Soc., xlvi, 305.

Family MEMBRACIDÆ.

(See page 53)

Acutalis Fairmaire.

tartarea Say. Bull. Buff. Soc. Nat. Sci., ix, 51.

Achasia Stål.

belfragei Stål. Bull. Buff. Soc. Nat. Sci., ix, 73.

Family MIRIDÆ.

Phytocoris Fallen.

(See page 71)

buenoi Knight. Bull. Brook. Ent. Soc., xv, 57.
conspurcatus Knight. *Ibid.*, xv, 61.
corticevivens Knight. *Ibid.*, xv, 63.
penipectus Knight. *Ibid.*, xv, 58.
salicis Knight. *Ibid.*, xv, 56.
sulcatus Knight. *Ibid.*, xv, 64.

Order **LEPIDOPTERA.**

Family GLYPHIPTERYGIDÆ.

(Belongs near Tortricidæ, see page 96)

Hemerophila Hubner.

pariana Clerck. *Simæthis.* Apple and thorn skeletonizer. Rept. N. Y. State Ent., 33, 33.

Family TORTRICIDÆ.

(See page 96.)

Olethreutes Hübner.

(See page 97)

hemidesma Zeller. Rept. Conn. Agr. Expt. Sta., 1917, 364, Pl. xxxi, b.

Family PYRALIDÆ

(See page 103)

Acrobasis Zeller.

(See page 109)

demotella Grote. Wash. Ent. Soc., x, 41.

Order **DIPTERA.**

Family CECIDOMYIDÆ (ITONIDIDÆ).

(See page 168)

Diarthronomyia Felt.

hypogæa Loew. Chrysanthemum gall midge. Rept. Conn. Agr. Expt. Sta., 1919, 161, pl. xxxi.

Cincticornia Felt.

(See page 169)

pillulæ Walsh and Riley. N. Y. State Mus. Bull., 200, 90.

Caryomyia Felt.

(See page 169)

holotricha Osten Sacken. N. Y. State Mus. Bull., 200, 47.

Family SCATOPSIDÆ.

(See page 171)

Ectætia Enderlein.

clavipes Loew. *Scatopse.* Linn. Ent., i, 333. (H.L.J.)

Family SYRPHIDÆ.

(See page 184)

Xylota Meigen.

(See page 188)

tuberans Williston. Syn. N. A. Syrph., 225.

Family TACHINIDÆ.

(See page 190)

Tachina Meigen.

(See page 194)

simulans Meigen. Zweiflüg. Ins., iv, 306.

Family SCIOMYZIDÆ.

(See page 201)

Limnia Desvoidy.

boscii Desvoidy. Ann. Ent. Soc. Am., xiii, 323.

Tetanocera Dumeril

elata Fabricius. Ann. Ent. Soc. Am., xiii, 328.

rotundicornis Loew. *Ibid.,* xiii, 328.

vicina Macquart. *Ibid.,* xiii, 327.

Order COLEOPTERA.

Family DYTISCIDÆ.

Deronectes Sharp.

(See page 220)

griseostriatus DeGeer. Coleop. Ind., 216. (K.F.C.)

Hydroporus Clairville.

(See page 220)

spurius LeConte. Proc. Acad. Nat. Sci., 1855, 296. (K.F.C.)

Family HYDROPHILIDÆ.

Hydrobius Leach.

(See page 223)

tessellatus Ziegler. Coleop. Ind., 263. (K.F.C.)

Family LAMPYRIDÆ.

(See page 234)

Photinus Laporte.

marginellus LeConte. Trans. Am. Ent. Soc., ix, 35.

Family ELATERIDÆ.

Melanotus Eschscholtz.

(See page 242)

castanipes Paykull. Coleop. Ind., 746.
depressus Melsheimer. *Ibid.*, 755.
sp. near **sagittarius** LeConte.

Family EROTYLIDÆ.

(See page 251)

Mycotretus Lacordaire.

pulchra Say. Trans. Am. Ent. Soc., iv, 354.

Family TENEBRIONIDÆ.

(See page 257)

Scaphidema Redtenbacher.

æneolum LeConte. Coleop. Ind., 1265.

Family MELANDRYIDÆ.
(See page 259)

Serropalpus Hellwig.

barbatus Scholl. Illus. Besttabl. Kaf. Deutsch., 727.

Eustrophinus Seidletz (See page 259)

tomentosus Say. Coleop. Ind., 1293. (K. F. C.)

Family SCARABÆIDÆ.

Aphodius Illiger.
(See page 262)

hæmorrhoidalis Linnæus. Syst. Nat., 1, 348.

Family CERAMBYCIDÆ.
(See page 266)

Leptostylus LeConte.
(See page 270)

aculiferus Say. Trans. Am. Ent. Soc., viii, 121.

Oberea Mulsant.
(See page 272)

tripunctata Swederus var. **myops** Haldeman. Trans. Am. Ent. Soc., vii, 47.

Family CHRYSOMELIDÆ.

Diabrotica Chevrolat.
(See page 277)

longicornis Say. Coleop. Ind., 1172. (K.F.C.)

Family CURCULIONIDÆ.

Acanthoscelis Dietz.
(See page 286)

curtus Say. Rhyn. N. E. Am., 431. (K.F.C.)

Ceutorhynchus Germar (See page 287)

semirufus LeConte. Rhyn. N. E. Am., 451. (K.F.C.)

Order **HYMENOPTERA.**

Family TENTHREDINIDÆ.

(See page 292)

Hemichroa Stephens.

dyari Rohwer. Proc. Wash. Ent. Soc., xx, 171

Trichiocampus Hartig (See page 297.)

gregarius Dyar. *Cladius gregarius.* Conn. Geol. Nat. Hist. Surv., Bull. 22, 110.

irregularis Dyar. *Priophorus irregularis.* Journ. N. Y. Ent. Soc., viii, 28.

Pteronidea Rohwer.

(See page 298)

alnivora Rohwer. Proc. U. S. Nat. Mus., lvii, 213.

Kaliofenusa MacGillivray.

(Belongs near **Erythraspides,** page 299)

ulmi Sundewall. Elm leaf-miner. Conn. Geol. Nat. Hist. Surv., Bull. 22, 157.

Family BRACONIDÆ.

(See page 305)

Cyanopterus Wesmael.

sp.

Family ICHNEUMONIDÆ.

Campoplex Gravenhorst.

(See page 309)

validus Cresson. *Limnerium validum. Mesoleptus.* Proc. Ent. Soc. Phila., iii, 258.

Arotes Gravenhorst.

(See page 315)

decorus Say. Conn. Geol. Nat. Hist. Surv., Bull. 22, 326.

Family EULOPHIDÆ.

(See page 323)

Dimmockia Ashmead.

incongrua Ashmead. *Eulophus.* Proc. Wash. Ent. Soc., iv, 158.

Family CHALCIDIDÆ.

(See page 326)

Rhopalicus Fœrster.

suspensus Ratzeburg. *Pteromalus.* Ichneumon. d. Forstins., i, 189.

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ADDITIONS TO THE CHECK-LIST OF THE INSECTS OF CONNECTICUT

(First Supplement to Bulletin No. 31)

By

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PREFACE

Early in 1921 the "Check-List of the Insects of Connecticut" was published as Bulletin No. 31 of this Survey. Since then many additional species and records have been collected, and the present paper is a list of these additions together with the correction of certain errors discovered in Bulletin No. 31. Some of the additions have been brought to light in the publication of Bulletin No. 34, "The Hemiptera of Connecticut," and others in Bulletin No. 39, "The Odonata or Dragonflies of Connecticut."

In order to facilitate ready reference all names in the appendix (pages 354-361) of Bulletin No. 31 are included in the present list, but are excluded from the figures given in the second column of statistics. Mere correction of the name of a species listed in Bulletin No. 31 is not included. Hence the statistics given in the following table may be considered a fairly accurate summary of the species and varieties of insects that have been recorded from Connecticut up to the time that this manuscript went to press, May 1938.

STATISTICS OF INSECTS OF CONNECTICUT

Order	Number of Species and Varieties Listed		
	Bull. 31	Bull. 60	Total
Thysanura	16	16	32
Isoptera	1	0	1
Corrodentia	9	0	9
Plecoptera	11	11	22
Ephemerida	11	39	50
Mallophaga	7	1	8
Neuroptera	16	5	21
Mecoptera	6	11	17
Trichoptera	30	20	50
Odonata	101	17	118
Euplexoptera	2	0	2
Orthoptera	106	4	110
Dermaptera	0	1	1
Thysanoptera	12	28	40
Hemiptera	800	231	1,031
Lepidoptera	1,452	96	1,548
Siphonaptera	1	5	6
Diptera	1,111	454	1,565
Coleoptera	1,825	571	2,396
Strepsiptera	3	0	3
Hymenoptera	1,261	578	1,839
Total Insects	6,781	2,088	8,869
Spiders			393

ABBREVIATIONS

A. A. S. — Aretas A. Saunders, Fairfield, Conn., has collected Lepidoptera around Fairfield and New Haven, Conn.

A. B. K. — Alexander B. Klots, New York City, has collected Lepidoptera around Putnam, Conn.

B. A. P. — Bennet A. Porter, Bureau of Entomology, Washington, D. C., formerly at the Bureau field station, Wallingford, Conn.

B. J. K. — Benjamin J. Kaston, New Haven, Conn., has collected and studied elm borers and other elm insects in all sections of the State, in connection with the control of the Dutch elm disease.

B. T. R. L. — Bartlett Tree Research Laboratory, Stamford, Conn.

C. H. C. — Charles Howard Curran, American Museum of Natural History, New York City.

C. R. H. — Charles Rufus Harte, New Haven, Conn., has collected butterflies in various parts of Connecticut.

E. M. S. — Ernest M. Stoddard, pomologist, Agricultural Experiment Station, New Haven, Conn.

E. P. F. — Dr. E. P. Felt, Director, Bartlett Tree Research Laboratories, Stamford, Conn. Formerly State Entomologist, Albany, N. Y.

G. H. P. — George H. Plumb, assistant in Entomology, Agricultural Experiment Station, New Haven, Conn.

H. T. S. — Professor Herman T. Spieth, New York City, who has collected mayflies in Connecticut.

H. W. H. — Henry W. Hicock, assistant Forester, Agricultural Experiment Station, New Haven, Conn.

J. L. R. — J. Leslie Rogers, for several years assistant in Entomology, Agricultural Experiment Station, New Haven, Conn.

J. P. J. — J. Peter Johnson, assistant in Entomology in charge of Asiatic and Japanese beetle quarantines, New Haven, Conn.

J. R. H. — J. R. Haskin, has collected Lepidoptera around Waterford, Conn.

M. P. Z. — Max P. Zappe, assistant Entomologist, Agricultural Experiment Station, New Haven, Conn.

P. G. — Philip Garman, assistant Entomologist, Agricultural Experiment Station, New Haven, Conn.

P. P. W. — Philip P. Wallace, technical advisor, Elm Sanitation Project, New Haven, Conn., has observed and collected insects in all parts of the State.

Q. S. L. — Quincy S. Lowry, Office Commissioner of Agriculture, Boston, Mass., formerly assistant Entomologist, Agricultural Experiment Station, New Haven, Conn.

R. B. F. — Roger B. Friend, assistant Entomologist, Agricultural Experiment Station, New Haven, Conn.

R. C. W. Jr. — R. C. Williams, Jr., Curator of Lepidoptera, Academy of Natural Sciences, Philadelphia, Pa., often summers in Avon, Conn.

S. W. B. — Stanley W. Bromley, Stamford, Conn., formerly Bureau of Entomology. and stationed at Wallingford, Conn.

ADDITIONS TO THE CHECK-LIST OF THE INSECTS OF CONNECTICUT

WILTON E. BRITTON

Order **THYSANURA.**

Family PODURIDÆ.

Podura (Linnæus) Tullberg.

aquatica Linnæus. *granulata* MacGillavray. Collembola of Iowa, 8.

Subfamily Achorutinæ.

Achorutes Templeton.

glasgowi Folsom. *Schöttella.* Proc. U. S. Nat. Mus., 50, 494.
manubrialis Tullberg. Jour. Econ. Biol., v, 100. (M.P.Z.)

Friesea Dalla Torre.

mirabilis Tullberg. Mention in Collembola of Minnesota, 40, 96.

Pseudachorutes Tullberg.

aureofasciatus Harvey. Proc. U. S. Nat. Mus., 50, 500.

Subfamily Neanurinæ.

Anurida Laboulbène.

maritima Guérin. Proc. U. S. Nat. Mus., 50, 503.

Micranurida Börner.

pygmæa Börner. Collembola of Iowa, 27.

Onychiurus Gervais.

subtenuis Folsom. Proc. U. S. Nat. Mus., 53, 642.

Family ENTOMOBRYIDÆ.

Folsomia Willem.

fimetaria (Linnæus). *Isoloma.* U. S. Nat. Mus., Bull. 168, 28.
quadrioculata (Tullberg). *Isoloma. Ibid.*, Bull. 168, 24.

Proisotoma Börner.

minuta Tullberg. Collembola of Iowa, 54.

Isotoma Bourlet.

grandiceps Reuter. U. S. Nat. Mus., Bull. 168, 108.

Lepidocyrtus Bourlet.

cyaneus Tullberg. Collembola of Iowa, 72.

Pseudosinella Schäffer.

violentus (Folsom) var. *rolfsi* Mills. Collembola of Iowa, 76.

Orchesella Templeton.

hexfasciata (Harvey). Collembola of Iowa, 79.

Tomocerus Nicolet.

flavescens (Tullberg). Proc. U. S. Nat. Mus., 46, 457.

Order **PLECOPTERA.**

Stoneflies

Family PTERONARCIDÆ.

Pteronarcys Newman.

biloba Newman. Plecop. N. A., 40.

Family PERLIDÆ.

Togoperla Klapalek.

capitata Pictet. *Perla.* Plecop. N.A., 96.

marginipes Provancher. Regarded by some authors as a synonym of the preceding. *Ibid.*, 96.

Alloperla Banks.

imbecilla Say. Plecop. N.A., 125.

Neoperla Needham.

occipitalis Pictet. *clymene* Newman. Plecop. N.A., 135.

Clioperla Needham and Claasen.

similis Hagen. Plecop. N.A., 138.

Isoperla Banks.

bilineata Say. Plecop. N.A., 154.

montana Banks. *Ibid.*, 155.

mohri Frison. Bull. Ill. St. Nat. Hist. Surv., xx, 455.

richardsoni Frison. *Ibid.*, xx, 459.
signata Banks. Plecop. N.A., 149.

Acroneuria Pictet.
arenosa Pictet. Plecop. N.A., 180.
lycorias Newman. *Ibid.*, 189.
pennsylvanica Rambur. *Ibid.*, 182.

Family NEMOURIDÆ.

Tæniopteryx Pictet.
fasciata Burmeister. Plecop. N.A., 243.
maura Pictet. *Ibid.*, 239.

Family CAPNIIDÆ.

Allocapnia Claasen.
pygmæa Burmeister. Plecop. N.A., 277.

Order **EPHEMERIDA.**
Mayflies

Family EPHEMERIDÆ.

Ephemera Linnæus.
guttulata Pictet. Biol. Mayflies, 250.
simulans Walker. *Ibid.*, 252. (H.T.S.)

Hexagenia Walsh.
limbata Pictet var. **occulta** Walker. Biol. Mayflies, 265, 269.

Family POTAMANTHIDÆ.

Potamanthus Pictet.
distinctus Traver. Biol. Mayflies, 280. (H.T.S.)

Family LEPTOPHLEBIIDÆ.

Habrophlebiodes Ulmer.
betteni Needham. Biol. Mayflies, 548.

Leptophlebia Westwood.
johnsoni McDunnough. Biol. Mayflies, 509.

Paraleptophlebia Lestage.
adoptiva McDunnough. Biol. Mayflies, 516.

mœrens McDunnough. *Ibid.*, 525. (H.T.S.)
volitans McDunnough. *Ibid.*, 530. (H.T.S.)

Family EPHEMERELLIDÆ.

Ephemerella Walsh.

dorothea Needham. Biol. Mayflies, 594. (H.T.S.)
fuscata Walker. *Ibid.*, 600. (H.T.S.)
invaria Walker. *Ibid.*, 607.
minimella McDunnough. *Ibid.*, 612. (H.T.S.)
needhami McDunnough. *Ibid.*, 614. (H.T.S.)
prudentialis McDunnough. *Ibid.*, 616. (H.T.S.)
septentrionalis McDunnough. *Ibid.*, 618. (H.T.S.)
serratus Morgan. *Ibid.*, 619. (H.T.S.)
subvaria McDunnough. *Ibid.*, 622. (H.T.S.)

Family BÆTIDÆ.

Bætis Leach.

frivolus McDunnough. Biol. Mayflies, 690. (H.T.S.)

Callibætis Eaton.

pretiosus Banks. Biol. Mayflies, 672.

Family SIPHLONURIDÆ.

Isonychia Eaton.

bicolor Walker. Biol. Mayflies, 486. (H.T.S.)

Siphlonurus Eaton.

berenice McDunnough. Biol. Mayflies, 468.
qubecensis McDunnough. *Ibid.*, 474. (H.T.S.)
rapidus McDunnough. *Ibid.*, 475.

Family HEPTAGENIDÆ.

Arthroplea Bengtsson.

bipunctata McDunnough. Biol. Mayflies, 426. (H.T.S.)

Heptagenia Walsh.

minerva McDunnough. Biol. Mayflies, 354.
townesi Traver. *Ibid.*, 363. (H.T.S.)

Iron Eaton.

humeralis Morgan. Biol. Mayflies, 404. (H.T.S.)

Stenonema Traver.

canadense Walker. Biol. Mayflies, 307. (H.T.S.)
carolina Banks. *Ibid.*, 309. (H.T.S.)
frontalis Banks. *Ibid.*, 312. (H.T.S.)
fuscum Clemens. *Ibid.*, 314. (H.T.S.)
heterotarsalis McDunnough. *Ibid.*, 316. (H.T.S.)
interpunctatum Say. *Ibid.*, 317.
ithaca Clemens and Leonard. *Ibid.*, 318. (H.T.S.)
majus Traver. *Ibid.*, 320. (H.T.S.)
pudicum Hagen. *Ibid.*, 326.
rubromaculatum Clemens. *Ibid.*, 329.
rubrum McDunnough. *Ibid.*, 330. (H.T.S.)

Order **MALLOPHAGA.**

Family TRICHODECTIDÆ.

Trichodectes Nitzsch.

latus Nitzsch. Bur. Ent., Bull. 5, 203.

Order **NEUROPTERA.**

Family SIALIDÆ.

Chauliodes Latreille.

fasciatus Walker. N. Y. State Mus., Bull. 68, 458.

Sialis Latreille.

vagans Ross. Bull. Ill. St. Nat. Hist. Surv., 21, art. 3, 76.

Family MYRMELEONIDÆ.

Dendroleon Brauer.

obsoletum Say. Insect Book, Pl. xxvi, 9.

Cryptoleon Banks.

nebulosum Olivier. *Marocauda conspersa.* Can. Ent., xix, 212.

Family CONIOPTERYGIDÆ.

Conwentzia Enderlein.

hageni Banks. Proc. Wash. Ent. Soc., viii, 82.

Order **MECOPTERA.**

Scorpion Flies

Family PANORPIDÆ.

Panorpa Linnæus.

acuta Carpenter. Bull. Mus. Comp. Zool., lxxii, 253.
canadensis Banks. Trans. Am. Ent. Soc., xxii, 315.
chelata Carpenter. Bull. Mus. Comp. Zool., lxxii, 251.
claripennis Hine. *Ibid.*, lxxii, 248.
elaborata Carpenter. *Ibid.*, lxxii, 239.
signifer Banks. Trans. Am. Ent. Soc., xxvi, 251.
subfurcata Westwood. *Ibid.*, 316.
venosa Westwood. N.A. Neurop., 242.
virginica Banks. Psyche, xiii, 99.

Note: *Panorpa americana* Swederus, and *confusa* Westwood of the Check-List were wrongly identified and must be dropped.

Bittacus Latreille.

occidentis Walker. N. A. Neurop., 247.
strigosus Hagen. *Ibid.*, 246.

Order **TRICHOPTERA.**

Caddis Flies

Family RHYACOPHILIDÆ.

Rhyacophila Pictet.

carolina Banks. N. Y. State Mus., Bull. 292, 128.

Family HYDROPSYCHIDÆ.

Hydropsyche Pictet.

reciproca Walker. N. Y. State Mus., Bull. 292, 189.

Family POLYCENTROPIDÆ.

Holcocentropus McLachlan.

interruptus Banks. N. Y. State Mus., Bull. 292, 222.

Family MOLANNIDÆ.

Molanna Curtis.

cinerea Hagen. N. Y. State Mus., Bull. 292, 246.

Family LEPTOCERIDÆ.

Oecetina Banks.

inconspicua Walker. N. Y. State Mus., Bull. 292, 247.

Leptocerus Leach.

transversus Hagen. N. Y. State Mus., Bull. 292, 262.

Triænodes McLachlan.

ignita Walker. N. Y. State Mus., Bull. 292, 284.

Family PHRYGANEIDÆ.

Phryganea Linnæus.

cinerea Walker. N. Y. State Mus., Bull. 292, 291.
vestita Walker. *Dasystegia. Ibid.*, 292, 294.

Neuronia Leach.

concatenata Walker. *Banksiola.* N. Y. State Mus., Bull. 292, 297.
ocellifera Walker. *Ibid.*, 292, 299.
semifasciata Say. *Ibid.*, 292, 301.

Family LIMNEPHILIDÆ.

Glyphotælius Stephens.

hostilis Hagen. N. Y. State Mus., Bull. 292, 313.

Arctœcia McLachlan.

consocia Walker. N. Y. State Mus., Bull. 292, 314.

Limnephilus Leach.

indivisus Walker. N. Y. State Mus., Bull. 292, 325.
mœstus Banks. *Ibid.*, 292, 327.
ornatus Banks. *Ibid.*, 292, 329.

Allegophylax Banks.

subfasciatus (Say). N. Y. State Mus., Bull. 292, 351.

Platycentropus Ulmer.

indistinctus Walker. N. Y. State Mus., Bull. 292, 357.

Neophylax McLachlan.

concinnus McLachlan. N. Y. State Mus., Bull. 292, 375.

Family SERICOSTOMATIDÆ.

Schizopelax McLachlan.

lobata Banks. *Agarodes grisea*. N. Y. State Mus., Bull. 292, 392.

Lepidostoma Rambur.

wisconsinensis Vorhies. *Alepomyiodes*. N. Y. State Mus., Bull. 292, 403.

Order **ODONATA.**

Dragonflies

Family AGRIONIDÆ.

Argia Rambur.

translata Hagen. Conn. Geol. Nat. Hist. Surv., Bull. 39, 90.

Enallagma Charpentier.

calverti Morse. Conn. Geol. Nat. Hist. Surv., Bull. 39, 65. (P.G.)
hageni Walsh. *Ibid.*, Bull. 39, 75. (P.G.)
laterale Morse. *Ibid.*, Bull. 39, 76.

Ischnura Charpentier.

ramburii Selys. Conn. Geol. Nat. Hist. Surv., Bull. 39, 43.

Family AESCHNIDÆ.

Ophiogomphus Selys.

mainensis Packard. *carolus* Needham. Conn. Geol. Nat. Hist. Surv., Bull. 39, 137.

Lanthus Needham.

parvulus (Selys). Conn. Geol. Nat. Hist. Surv., Bull. 39, 140.

Gomphus Leach.

lividus Selys. Conn. Geol. Nat. Hist. Surv., Bull. 39, 154.
scudderi Selys. *Ibid.*, Bull. 39, 161. (L.B.W.)
ventricosus Walsh. *Ibid.*, Bull. 39, 166. (P.G.)
villosipes Selys. *Ibid.*, Bull. 39, 159?

Nasiæschna Selys.

pentacantha Rambur. Conn. Geol. Nat. Hist. Surv., Bull. 39, 194.

Family LIBELLULIDÆ.

Neurocordulia Selys.

yamaskanensis (Provancher). Conn. Geol. Nat. Hist. Surv., Bull. 39, 236.

Somatochlora Selys.

elongata Scudder var. *minor* Calvert of Check-List should be dropped.

linearis (Hagen). Conn. Geol. Nat. Hist. Surv., Bull. 39, 225. (M.P.Z.)

walshii (Scudder). *Ibid.*, Bull. 39, 223. (S.W.B.)

Libellula Linnæus.

exusta Say var. **julia** Uhler. Conn. Geol. Nat. Hist. Surv., Bull. 39, 246.

Sympetrum Newman.

obstrusum (Hagen) Diplax. Conn. Geol. Nat. Hist. Surv., Bull. 39, 275.

Tramea Hagen.

lacerata Hagen. Conn. Geol. Nat. Hist. Surv., Bull. 39, 291. (P.G.)

Order **DERMAPTERA.**

Earwigs

Family FORFICULIDÆ.

Forficula Linnæus.

auricularia Linnæus. European earwig. Man. Orthop. N. E., 295. (W. E. B.)

Order **ORTHOPTERA.**

Grasshoppers, Crickets, etc.

Family PHASMIDÆ.

Manomera blatchleyi Caudell belongs here instead of in Mantidæ as given in the Check-List (Bulletin 31).

Family ACRIDIDÆ.

Melanoplus Stål.

viridipes Scudder. Proc. Bost. Soc. Nat. Hist., 35, 522.

Family LOCUSTIDÆ.

Diestrammena Brunner.

marmorata (De Haan). Conservatory or Asiatic camel cricket. Orthop. N. E., 375.

Neoconocephalus Karny.

lyristes Rehn and Hebard. Orthop. N. E. Am., 518. (B.H.W.)

Conocephalus Thunberg.

saltans Scudder. Orthop. N. E., 368.

Order **THYSANOPTERA.**

Thrips

Family AEOLOTHRIPIDÆ.

Oeolothrips Haliday.

bicolor Hinds. Proc. U. S. Nat. Mus., xxvi, 130. (H.M.R.)

Family THRIPIDÆ.

Chirothrips Haliday.

manicatus (Haliday). Proc. U. S. Nat. Mus., xxvi, 134. (H.M.R.)

obesus Hinds. *Ibid.*, xxvi, 137. (H.M.R.)

Limothrips Haliday.

cerealium (Haliday). *avenae* Hinds. Proc. U. S. Nat. Mus., xxvi, 139. (H.M.R.)

Pseudothrips Hinds.

inequalis (Beach). Proc. U. S. Nat. Mus., xxvi, 146.

Scoliothrips Hinds.

sex-maculatus (Pergande). Proc. U. S. Nat. Mus., xxvi, 157.

Anaphothrips Uzel.

obscurus (Müller). *striatus* Osborn of Check-List. Proc. U. S. Nat. Mus., xxvi, 161.

Aptinothrips Haliday.

rufus (Gmelin). Proc. U. S. Nat. Mus., xxvi, 166. (H.M.R.)

Heliothrips Haliday.

femoralis Reuter. Not Heeger as given in Check-List.

Thrips Linnæus.

discolor Haliday. Thysanop. Europ., 405. (W.E.B.)

physapus Linnæus. *Ibid.*, 352. (H.M.R.)

Frankliniella Karny.

fusca Hinds. Proc. U. S. Nat. Mus., 24, 154.

stylosa Hood. Proc. Wash. Ent. Soc., xiv, 134. (W.E.B.)

Tæniothrips Amyot and Serville.

inconsequens Uzel. *Euthrips pyri* Daniel. Pear thrips. Man. Fruit Ins., 223.

simplex Morison. *gladioli* Moulton and Steinweden. Gladiolus thrips. Can. Ent., lxiii, 20.

Family PHLŒOTHRIPIDÆ.

Ctenothrips Franklin.

bridwelli Franklin. Ent. News, xviii, 248. (H.M.R.)

Haplothrips Amyot and Serville.

leucanthemi (Schrank). Thysanop. Europ., 614.

verbasci (Osborn). *Anthothrips verbasci.* Proc. U. S. Nat. Mus., xxvi, 189. (H.M.R.)

Leptothrips Hood.

mali (Fitch). *Cryptothrips. aspersus* Hinds of Check-List. Proc. U. S. Nat. Mus., xxvi, 205.

Zygothrips Uzel.

americanus Hood. Psyche, xix, 114. (H.M.R.)

Bagnaliella Karny.

yuccæ Hinds. *Cephalothrips yuccae.* Proc. U. S. Nat. Mus., xxvi, 194. (H.M.R.)

Liothrips Uzel.

castanea Hood.

citricornis (Hood). *Phyllothrips citricornis.* Can. Ent., xl, 305. (H.M.R.)

Rhynchothrips Hood.

pruni Hood. Proc. Wash. Ent. Soc., xiv, 142. (H.M.R.)

tridentatus (Shull). *Trichothrips tridentatus.* Ent. News, xx, 226. (H.M.R.)

Hoplothrips Amyot and Serville.

corticis (De Geer). Thysanop. Europ., 539.

karnyi Hood. Insec. Insc. Menstr., ii, 20. (W.E.B.)
major Hood. *Thrips ulmi* Fabricius. Bull. Brook. Ent. Soc., xviii, 94.
sp.

Trichothrips Uzel.

sp.

Megalothrips Uzel.

spinosus Hood. *Idolothrips fuscus* Watson. Can. Ent., xl, 306.

Dendrothrips Uzel.

ornatus Jablonowski. Thysanop. Europ., 174.

Order **HEMIPTERA.**

Bugs

Sub Class Rhynchota.

Suborder **PARASITICA.**

Family HÆMATOPINIDÆ.

Hæmatopinus Leach.

suis (Linnæus). Hog louse. Conn. Geol. Nat. Hist. Surv., Bull. 22, 20.

Polyplax Enderlein.

spinulosa (Burmeister). Rat louse. Conn. Geol. Nat. Hist. Surv., Bull. 22, 21.

Suborder **HOMOPTERA.**

Family FULGORIDÆ.

Scolops Schaum.

spurcus Uhler. Conn. Geol. Nat. Hist. Surv., Bull. 34, 28.

Epiptera Metcalf.

brittoni Metcalf. Jour. Elisha Mitchell Scientific Society, 38, 175.

Catonia Uhler.

cinctifrons (Fitch). Conn. Geol. Nat. Hist. Surv., Bull. 34, 31.
dimidiata Van Duzee. *Ibid.*, Bull. 34, 30.
picta Van Duzee. *Ibid.*, Bull. 34, 31.

Cixius Latreille.

apicalis Metcalf. Jour. Elisha Mitchell Scientific Society, 38, 182.

Myndus Stål.

sordidipennis Stål. Conn. Geol. Nat. Hist. Surv., Bull. 34, 35.

Brucomorpha Newman.

dorsata Fitch. Conn. Geol. Nat. Hist. Surv., Bull. 34, 36. (H.L.J.)
tristis Stål. *Ibid.*, Bull. 34, 37.

Herpis Stål.

incisa Metcalf. Jour. Elisha Mitchell Scientific Society, 38, 195.

Aphelonema Uhler.

simplex Uhler. Conn. Geol. Nat. Hist. Surv., Bull. 34, 37.

Anotia Fitch.

bonnetii Kirby. Conn. Geol. Nat. Hist. Surv., Bull. 34, 42.

Otiocerus Kirby.

abbotii Kirby. Conn. Geol. Nat. Hist. Surv., Bull. 34, 44.
coquebertii Kirby. *Ibid.*, Bull. 34, 44.

Kelisia Fieber.

crocea Van Duzee. Conn. Geol. Nat. Hist. Surv., Bull. 34, 47.

Megamelus Fieber.

distinctus Metcalf. Jour. Elisha Mitchell Scientific Society, 38, 201.

Pissonotus Van Duzee.

brunneus Van Duzee. Conn. Geol. Nat. Hist. Surv., Bull. 34, 50.

Phyllodinus Van Duzee.

nervatus Van Duzee. Conn. Geol. Nat. Hist. Surv., Bull. 34, 51.

Liburnia Stål.

waldeni Metcalf. Jour. Elisha Mitchell Scientific Society, 39, 212.

Criomorphus Curtis.

conspicuous Metcalf. Jour. Elisha Mitchell Scientific Society, 38, 212.

Family CICADELLIDÆ.

Agallia Curtis.

oculata Van Duzee. Conn. Geol. Nat. Hist. Surv., Bull. 34, 60.

Idiocerus Lewis.

alternatus Fitch. Conn. Geol. Nat. Hist. Surv., Bull. 34, 62.
cognatus Fieber. *Ibid.*, Bull. 34, 62.

duzeei Provancher. *Ibid.*, Bull. 34, 63.
nervatus Van Duzee. *Ibid.*, Bull. 34, 65.
suturalis Fitch. *Ibid.*, Bull. 34, 66.
suturalis var. **lunaris** Ball. *Ibid.*, Bull. 34, 66.

Macropsis Lewis.

basalis (Van Duzee). Conn. Geol. Nat. Hist. Surv., Bull. 34, 68.
gleditschiæ (Osborn and Ball). *Ibid.*, Bull. 34, 67.
sordida (Van Duzee). *Ibid.*, Bull. 34, 69.

Oncopsis Burmeister.

pruni (Provancher). Conn. Geol. Nat. Hist. Surv., Bull. 34, 72.
tumidifrons DeLong. *Ibid.*, Bull. 34, 70.

Aulacizes Amyot and Serville.

irrorata Fabricius. Conn. Geol. Nat. Hist. Surv., Bull. 34, 75. (B.J.K.)

Gypona Germar.

melanota Spangberg. *bipunctulata* Woodworth. Conn. Geol. Nat. Hist. Surv., Bull. 34, 83.
octolineata Say var. **striata** Burmeister. *geminata* Osborn. *Ibid.*, Bull. 34, 82.
scarlatina Say var. **pectoralis** Spangberg. *Ibid.*, Bull. 34, 84.

Acucephalus Germar.

nervosus (Schrank). Conn. Geol. Nat. Hist. Surv., Bull. 34, 86.

Xestocephalus Van Duzee.

pulicarius Van Duzee. Conn. Geol. Nat. Hist. Surv., Bull. 34, 87.
superbus (Provancher). *Ibid.*, Bull. 34, 87.

Nionia Ball.

palmeri (Van Duzee). Conn. Geol. Nat. Hist. Surv., Bull. 34, 89.

Hecalus Stål.

lineatus (Uhler). Conn. Geol. Nat. Hist. Surv., Bull. 34, 91.

Parabolocratus Fieber.

major Osborn. Conn. Geol. Nat. Hist. Surv., Bull. 34, 94.

Osbornellus Ball.

Scaphoideus Uhler.

alatus Beamer. Jour. Kans. Ent. Soc., 10, 105.
jucundus Uhler. Conn. Geol. Nat. Hist. Surv., Bull. 34, 96.
ochraceus Osborn. *Ibid.*, Bull. 34, 98.
rotundus Beamer. Jour. Kans. Ent. Soc., 10, 93.

Platymetopius Burmeister.

frontalis Van Duzee var. **nigrifrons** DeLong. Conn. Geol. Nat. Hist. Surv., Bull. 34, 103.
fulvus Osborn. *Ibid.*, Bull. 34, 102.

Deltocephalus Burmeister.

acus Sanders and DeLong. Conn. Geol. Nat. Hist. Surv., Bull. 34, 115.
areolatus Ball. *Ibid.*, Bull. 34, 106.
interruptus DeLong. *Ibid.*, Bull. 34, 109.
nominatus Sanders and DeLong. *Ibid.*, Bull. 34, 113.
obtectus Osborn and Ball. *Ibid.*, Bull. 34, 110.
sandersi Osborn. *Ibid.*, Bull. 34, 107.
striatus (Linnæus). *Ibid.*, Bull. 34, 113.
vinnulus Crumb. *Ibid.*, Bull. 34, 110.
weedi Van Duzee. *Ibid.*, Bull. 34, 109.

Aconura Lethierry.

acuticauda (Baker). Conn. Geol. Nat. Hist. Surv., Bull. 34, 116.

Euscelis Brullé.

cuneatus Sanders and DeLong. Conn. Geol. Nat. Hist. Surv., Bull. 34, 119.
parallelus (Van Duzee). *Ibid.*, Bull. 34, 119.

Phlepsius Fieber.

pusillus Baker. Conn. Geol. Nat. Hist. Surv., Bull. 34, 129.
truncatus Van Duzee. *Ibid.*, Bull. 34, 129.
tullahomi DeLong. *Ibid.*, Bull. 34, 130.

Fieberellia Signoret.

flori Stål. Ann. Soc. Ent. France, 1864, 63.

Thamnotettix Zetterstedt.

cypraceus Osborn. Conn. Geol. Nat. Hist. Surv., Bull. 34, 138.
fitchii Van Duzee. *Ibid.*, Bull. 34, 137.
inornatus Van Duzee. *Ibid.*, Bull. 34, 138.
morsei Osborn. *Ibid.*, Bull. 34, 135.
smithi Van Duzee. *Ibid.*, Bull. 34, 137.

Chlorotettix Van Duzee.

nudatus Ball. Conn. Geol. Nat. Hist. Surv., Bull. 34, 141.
spatulatus Osborn and Ball. *Ibid.*, Bull. 34, 139.

Neocœlidia Gillette and Baker.

tumidifrons Gillette and Baker. Conn. Geol. Nat. Hist. Surv., Bull. 34, 142.

Cicadula Zetterstedt.

lepida Van Duzee. Conn. Geol. Nat. Hist. Surv., Bull. 34, 144.
punctifrons Fallen. *Ibid.*, Bull. 34, 143.
punctifrons var. **repleta** Fieber. *Ibid.*, Bull. 34, 143.
slossoni Van Duzee. *Ibid.*, Bull. 34, 145.

Balclutha Kirkaldy.

osborni Van Duzee. Conn. Geol. Nat. Hist. Surv., Bull. 34, 146.

Eugnathodus Baker.

abdominalis (Van Duzee). Conn. Geol. Nat. Hist. Surv., Bull. 34, 146.

Alebra Fieber.

albostriella (Fallen). Conn. Geol. Nat. Hist. Surv., Bull. 34, 148.
albostriella var. **wahlbergi** Boheman. *Ibid.*, Bull. 34, 148.
fumida Gillette. *Ibid.*, Bull. 34, 148.

Dikraneura Hardy.

abnormis (Walsh). Conn. Geol. Nat. Hist. Surv., Bull. 34, 149.
fieberi (Loew). *Ibid.*, Bull. 34, 151.

Empoasca Walsh.

atrolabes Gillette. Conn. Geol. Nat. Hist. Surv., Bull. 34, 153.
aureoviridis (Uhler). *Ibid.*, Bull. 34, 153.
obtusa Walsh. *Ibid.*, Bull. 34, 153.
pergandei Gillette. *Ibid.*, Bull. 34, 153.
unicolor Gillette. *Ibid.*, Bull. 34, 152.

Typhlocyba Germar.

pomaria McAtee. Proc. U. S. Nat. Mus., 68, Art. 18, p. 29.

stellulata Burmeister. *inscripta* Sanders and DeLong. Conn. Geol. Nat. Hist. Surv., Bull. 34, 156.

vanduzei (Gillette). *Ibid.*, Bull. 34, 156.

Empoa Fitch.

tenerrima (Herrich-Schæffer). Conn. Geol. Nat. Hist. Surv., Bull. 34, 158.

Erythroneura Fitch.

comes (Say) var. **basilaris** (Say). Conn. Geol. Nat. Hist. Surv., Bull. 34, 161.

comes var. **infuscata** (Gillette). *Ibid.*, Bull. 34, 161.

comes var. **rubra** (Gillette). *Ibid.*, Bull. 34, 161.

comes var. **scutellaris** Gillette. *Ibid.*, Bull. 34, 161.

comes var. **vitis** (Harris). *Ibid.*, Bull. 34, 161.

comes var. **ziczac** Walsh. *Ibid.*, Bull. 34, 161.

obliqua var. **dorsalis** (Gillette). *Ibid.*, Bull. 34, 162.

trifasciata (Say). *Ibid.*, Bull. 34, 160.

vitis Harris var. **stricta** McAtee. Trans. Am. Ent. Soc., xlvi, 305.

Family MEMBRACIDÆ.

Gargara Amyot and Serville.

genistæ (Fabricius). Conn. Geol. Nat. Hist. Surv., Bull. 34, 172.

Acutalis Fairmaire.

tartarea (Say). Conn. Geol. Nat. Hist. Surv., Bull. 34, 180.

semicrema (Say). *Ibid.*, Bull. 34, 180.

Telemona Fitch.

coryli Fitch is a synonym for *tristis* Fitch.

Archasia Stål.

belfragei Stål. Conn. Geol. Nat. Hist. Surv., Bull. 34, 192.

Cyrtolobus Goding.

arcuatus (Emmons). Conn. Geol. Nat. Hist. Surv., Bull. 34, 195. *muticus* in part is a synonym.

maculifrontis (Emmons). *Ibid.*, Bull. 34, 198. (Not *maculipennis*.)

Atymna Stål.

helena Woodruff. Conn. Geol. Nat. Hist. Surv., Bull. 34, 200.

Family CERCOPIDÆ.

Philaronia Ball.

bilineata (Say) var. **pallidus** Stearns. Conn. Geol. Nat. Hist. Surv., Bull. 34, 230.

Clastoptera Germar.

obtusa (Say) var. **testacea** Fitch. Conn. Geol. Nat. Hist. Surv., Bull. 34, 236.

Family CICADIDÆ.

Tibicen Latreille.

chloromera Walker. Conn. Geol. Nat. Hist. Surv., Bull. 34, 241. *sayi* Smith and Grossbeck is a synonym.

Family PSYLLIDÆ.

Aphalara Foerster.

fascipennis Patch. Conn. Geol. Nat. Hist. Surv., Bull. 34, 245.

Trioza Foerster.

diospyri Ashmead. U. S. Nat. Mus., Bull. 85, 78.

Pachypsylla Riley.

celtidis-cucurbitæ Riley. Key to Am. Insect Galls, 124.

Psyllia Kirkaldy.

negundinis Mally. U. S. Nat. Mus., Bull. 85, 152.

Family APHIDIDÆ.

Dilachnus Baker.

Todolachnus Matsumura of Bulletin 31 should be **Dilachnus** Baker.

Lachnus Burmeister.

sabinæ Gillette and Palmer. Ann. Ent. Soc. Am., xvii, 9. (E.P.F.)

tomentosus Gillette and Palmer. *Ibid.*, x, 140.

Calaphis Walsh.

Callipternella annulata of Bulletin 31 is **Calaphis annulatus** (Koch).

Eucraphis Walker.

brevis Baker. Jour. Econ. Ent., 10, 426.

deducta Baker. Conn. Geol. Nat. Hist. Surv., Bull. 34, 279.

Monellia Oestlund.

costalis (Fitch). Conn. Geol. Nat. Hist. Surv., Bull. 34, 279. Not *castalis*.

Myzocallis Passerini.

quercicola Monell. Bull. U. S. Geol. Geog. Surv. Terr., v, 31.

Chaitophorus Koch.

bruneri Williams. Jour. Econ. Ent., 10, 429.

Periphyllus Van der Hoven.

negundinis (Thomas). Conn. Geol. Nat. Hist. Surv., Bull. 34, 285.

Aphis Linnæus.

rubiphila Patch. Conn. Geol. Nat. Hist. Surv., Bull. 34, 295.

sp.

Hyalopterus Koch.

chenopodii Cowen. Hemip. Col., 119.

Rhopalosiphum Koch.

berberidis Kaltenbach. Aphid. Ill., 235.

Anuraphis Del Guercio.

roseus Baker. Rosy apple aphid. Conn. Geol. Nat. Hist. Surv., Bull. 34, 298. This is the correct name and not *malifoliae* Fitch or *sorbi* Kaltenbach.

Amphorophora Buckton.

rubi (Kaltenbach). Aphid. Cal., 54.

Idiopterus Davis.

nephrelepidis Davis. Aphid. Ill., 292.

Macrosiphum Passerini.

solidaginis Fabricius.

Myzus Passerini.

circumflexus Buckton. Aphid. Ill., 335.

Neotoxoptera Theobald.

sp.

Colopha Monell.

ulmicola (Fitch). Conn. Geol. Nat. Hist. Surv., Bull. 34, 317.

Tetraneura Hartig.

ulmisacculi Patch. Conn. Geol. Nat. Hist. Surv., Bull. 34, 315.

Gobiashia Matsumura.

ulmifusus (Walsh). Conn. Geol. Nat. Hist. Surv., Bull. 34, 317.

Mordwilkoja Del Guercio.

vagabundus (Walsh). Conn. Geol. Nat. Hist. Surv., Bull. 34, 325.

Pemphigus Hartig.

populitransversus Riley. Conn. Geol. Nat. Hist. Surv., Bull. 34, 327.

Trifidaphis Del Guercio.

phaseoli Passerini. Aphid. Ill., 374.

Melaphis Walsh.

rhois Fitch. *Pemphigus*. Conn. Geol. Nat. Hist. Surv., Bull. 34, 317.

Adelges Linnæus .

cooleyi Gillette var. **coweni** Gillette. Proc. Acad. Nat. Sci. Phila., 1907, 10.

floccus Patch. Conn. Geol. Nat. Hist. Surv., Bull. 34, 329.

Phylloxera Boyer.

caryæ-fallax Riley. Proc. Davenport Acad. Sci., ix, 214.

vitifoliæ Fitch. Grape phylloxera. Conn. Geol. Nat. Hist. Surv., Bull. 34, 331. *vastatrix* Planchon is a synonym.

rimosalis Pergande is only a variation of *foveola* Pergande.

Family ALEYRODIDÆ.

Aleuroplatus Quaintance and Baker.

plumosus (Quaintance). Conn. Geol. Nat. Hist. Surv., Bull. 34, 339.

Dialeurodes Cockerell.

chittendeni Laing. Ent. Mo. Mag., lxiv, No. 773, 228-230.

Family COCCIDÆ.

Icerya Signoret.

purchasi Maskell. Cottony cushion scale. Rept. U. S. Dept. Agr., 1880, 347. On greenhouse *Acacia*, Farmington.

Matsucoccus Cockerell.

matsumuræ Kuwana. Conn. Agr. Expt. Sta., Bull. 383, 313.

Eriococcus Targioni-Tozzetti.

araucariæ Maskell. Rept. U. S. Com. Agr., 1880, 488.

borealis Cockerell. Can. Ent., xxi, 369. (W.E.B.)

Phenacoccus Cockerell.

serratus Ferris. Conn. Agr. Expt. Sta., Bull. 338, 596.

Pseudococcus Westwood.

comstocki Kuwana. Catalpa mealy bug. Va. Agr. Expt. Sta., Tech. Bull. 29.

cuspidatæ Rau. Bull. Brook. Ent. Soc., xxxii, 195.

maritimus (Ehrhorn). Can. Ent., xxxii, 316. (W.E.B.)

nipæ Maskell. *pseudonipae* Cockerell. Conn. Geol. Nat. Hist. Surv., Bull. 34, 354.

Cryptococcus Douglas.

fagi Bærensprung. Beech scale. Rept. Conn. Agr. Expt. Sta., 1935, 220.

Pulvinaria Targioni-Tozzetti.

In Bulletin 31 (Check-List), page 63, the 26th line should read **Pulvinaria** instead of *Eriococcus*.

acericola Walsh and Riley. Rept. Conn. Agr. Expt. Sta., 1927, 299.

sp.

Neolecanium Parrott.

cornuparvum Thro. Magnolia scale. Ohio Agr. Expt. Sta., Bull. 332, 302.

Lecanium Burmeister.

excrescens Ferris. Stanford Univ. Pub. Biol. Sci., 1, 37. (E.P.F.)

fletcheri Cockerell. Conn. Geol. Nat. Hist. Surv., Bull. 34, 358.

Chionaspis Signoret.

spartinæ Comstock. 2nd Rept. Dept. Ent., Cornell Univ., 1883, 106.

Fiorinia Targioni-Tozzetti.

fioriniæ Targioni-Tozzetti. 2nd Rept. Dept. Ent., Cornell Univ., 1883, 111.

japonica Kuwana. Proc. Cal. Acad. Sci., iii, 79.

Aspidiotus Bouché.

tsugæ Marlatt. Ent. News, xxii, 385.

Lepidosaphes Shimer.

gloverii (Packard). Glover's scale. Conn. Geol. Nat. Hist. Surv., Bull. 34, 378. On citrus fruits in markets.

Pseudoparlatoria Cockerell.

parlatorioides Comstock. Sec. Rept. on Scale Insects, 525. On Cypripedium at Pierson's.

Suborder **HETEROPTERA.**

Family BELOSTOMATIDÆ.

Belostoma Latreille.

lutarium (Stål). Conn. Geol. Nat. Hist. Surv., Bull. 34, 398.

Family SALDIDÆ.

Pentacora Reuter.

sphacelata (Uhler). Conn. Geol. Nat. Hist. Surv., Bull. 34, 412. This species should replace *P. ligata* Say of the Check-List, Bull. 31, 67.

Saldula Van Duzee.

xanthochila Fieber. Conn. Geol. Nat. Hist. Surv., Bull. 34, 414.

Micracanthia Reuter.

humilis (Say). Conn. Geol. Nat. Hist. Surv., Bull. 34, 415.

Lampracanthia Reuter.

coriacea Uhler. Conn. Geol. Nat. Hist. Surv., Bull. 34, 416 (given as *Salda coriacea* in Bull. 31, 67).

Family MIRIDÆ.

Plagiognathus Fieber.

albatus (Van Duzee). Conn. Geol. Nat. Hist. Surv., Bull. 34, 445.
albatus var. **similis** Knight. *Ibid.*, Bull. 34, 445.
albatus var. **vittiscutis** Knight. *Ibid.*, Bull. 34, 445.
alboradialis Knight. *Ibid.*, Bull. 34, 439.
brevirostris Knight. *Ibid.*, Bull. 34, 441.
fulvidus Knight. *Ibid.*, Bull. 34, 447.
laricicola Knight. *Ibid.*, Bull. 34, 452.
nigritus Knight. *Ibid.*, Bull. 34, 441.
nigrolineatus Knight. *Ibid.*, Bull. 34, 443.

obscurus Uhler var. **albocuneatus** Knight. *Ibid.*, Bull. 34, 438.
politus Uhler var. **flaveolus** Knight. *Ibid.*, Bull. 34, 434.
politus var. **pallidicornis** Knight. *Ibid.*, Bull. 34, 435.
punctatipes Knight var. **dispar** Knight. *Ibid.*, Bull. 34, 451.
repletus Knight var. **apicatus** Knight. *Ibid.*, Bull. 34, 449.
blatchleyi of the Check-List, Bull. 31, 68, should be dropped.

Microphylellus Reuter.

longirostris Knight. Conn. Geol. Nat. Hist. Surv., Bull. 34, 458.

Psallus Fieber.

waldeni Knight. Conn. Geol. Nat. Hist. Surv., Bull. 34, 468.

Megopsallus Knight.

brittoni Knight. Ann. Ent. Soc. Am., xx, 227. (W.E.B.)

Macrolophus Fieber.

brevicornis Knight. Ent. News, xxxvii, 314. (B.H.W.)

Eustictus Reuter.

necopinus Knight var. **discretus** Knight. Conn. Geol. Nat. Hist. Surv., Bull. 34, 482.

Deræocoris Kirschbaum.

alnicola Knight. Conn. Geol. Nat. Hist. Surv., Bull. 34, 489.
aphidiphagus Knight. *Ibid.*, Bull. 34, 489.
betulæ Knight. *Ibid.*, Bull. 34, 489.
borealis Van Duzee. *Ibid.*, Bull. 34, 487.
nitenatus Knight. *Ibid.*, Bull. 34, 491.
nubilis Knight. *Ibid.*, Bull. 34, 486.
pinicola Knight. *Ibid.*, Bull. 34, 493.
pœcilus McAtee. *Ibid.*, Bull. 34, 485.
quercicola Knight. *Ibid.*, Bull. 34, 491.
ruber Linnæus var. **bicolor** Knight. *Ibid.*, Bull. 34, 496.

Ilnacora Reuter.

stalii Reuter. Conn. Geol. Nat. Hist. Surv., Bull. 34, 502.

Lopidea Uhler.

marginalis (Reuter). Conn. Geol. Nat. Hist. Surv., Bull. 34, 508.
marginata Uhler of the Check-List, Bull. 31, 69, is evidently a misidentification.

Orthotylus Fieber.

dorsalis (Provancher). Conn. Geol. Nat. Hist. Surv., Bull. 34, 520.

neglectus Knight. *Ibid.*, Bull. 34, 515.

ornatus Van Duzee. *Ibid.*, Bull. 34, 519.

submarginatus (Say). *Ibid.*, Bull. 34, 518.

viridus (Van Duzee). *Ibid.*, Bull. 34, 519.

uniformis of Check-List, Bull. 31, 70, was evidently a misidentification and should be dropped.

Diaphnidia Uhler.

pellucida Uhler. Conn. Geol. Nat. Hist. Surv., Bull. 34, 522.

Pilophorus Westwood.

perplexus Douglas and Scott. Conn. Geol. Nat. Hist. Surv., Bull. 34, 544.

Sericophanes Reuter.

heidemanni Poppius. Conn. Geol. Nat. Hist. Surv., Bull. 34, 545.
noctuans Knight of Check-List, Bull. 31, 69, is a synonym.

Trigonotylus Fieber.

brevipes Jakolevsky of Check-List, Bull. 31, 73, is evidently an error and should be dropped.

Platytylellus Reuter.

fraternus Knight. Conn. Geol. Nat. Hist. Surv., Bull. 34, 553.
nigricollis Reuter. *Ibid.*, Bull. 34, 557.

Neoborus Distant.

glaber Knight. Conn. Geol. Nat. Hist. Surv., Bull. 34, 563.

Lygus Hahn.

clavigenitalis Knight. Conn. Geol. Nat. Hist. Surv., Bull. 34, 593.

pratensis Linnæus var. **strigulatus** (Walker). *Ibid.*, Bull. 34, 576.

quercalbæ Knight. *Ibid.*, Bull. 34, 591.

vanduzeei Knight var. **rubroclarus** Knight. *Ibid.*, Bull. 34, 577.

Polymerus Hahn.

Poeciloscytus Authors.

fulvipes Knight. Conn. Geol. Nat. Hist. Surv., Bull. 34, 603.

Horcias Distant.

dislocatus (Say) var. **coccineus** (Emmons). Conn. Geol. Nat. Hist. Surv., Bull. 34, 608.

dislocatus var. **flavidus** Knight. *Ibid.*, Bull. 34, 609.

Calocoris Fieber.

norvegicus (Gmelin). Conn. Geol. Nat. Hist. Surv., Bull. 34, 610.

Paralocoris Distant.

scrupeus (Say) var. **bidens** McAtee. Conn. Geol. Nat. Hist. Surv., Bull. 34, 612.

Phytocoris Fallen.

buenoi Knight. Conn. Geol. Nat. Hist. Surv., Bull. 34, 640.
confluens Knight. *Ibid.*, Bull. 34, 650.
conspurcatus Knight. *Ibid.*, Bull. 34, 626.
corticevivens Knight. *Ibid.*, Bull. 34, 629.
lasiomerus Reuter. *Ibid.*, Bull. 34, 617.
luteolus Knight. *Ibid.*, Bull. 34, 649.
minutulus Reuter. *Ibid.*, Bull. 34, 622.
penipecten Knight. *Ibid.*, Bull. 34, 640.
salicis Knight. *Ibid.*, Bull. 34, 639.
sulcatus Knight. *Ibid.*, Bull. 34, 622.
venustus Knight. *Ibid.*, Bull. 34, 651.

Family HYDROMETRIDÆ.

Hydrometra Latreille.

martini Kirkaldy. Conn. Geol. Nat. Hist. Surv., Bull. 34, 664.

Family ANTHOCORIDÆ.

Anthocoris Fallen.

musculus Say. *borealis* Dallas. Conn. Geol. Nat. Hist. Surv., Bull. 34, 667.

Lyctocoris Hahn.

campestris Fabricius. Heterop. East. N. Am., 623.

Family CIMICIDÆ.

Cimex Linnæus.

pilosellus (Horvath). Conn. Geol. Nat. Hist. Surv., Bull. 34, 669.

Family ISOMETOPIDÆ.

Myiomma Puton.

cixiiformis Uhler. Heterop. East. N. Am., 655.

Family NABIDÆ.

Nabis Latreille.

sordidus Reuter. Conn. Geol. Nat. Hist. Surv., Bull. 34, 673.

Family NÆOGEIDÆ (HEBRIDÆ).

Næogeus Laporte.

Hebrus Curtis.

burmeisteri Lethierry and Severin. Conn. Geol. Nat. Hist. Surv., Bull. 34, 676.

Family REDUVIIDÆ.

Oncerotrachelus Stål.

acuminatus Say. Conn. Geol. Nat. Hist. Surv., Bull. 34, 678.

Family TINGIDÆ.

Corythucha Stål.

associata Osborn and Drake. Conn. Geol. Nat. Hist. Surv., Bull. 34, 700.

cydoniæ Fitch. *Ibid.*, Bull. 34, 701.

heidemanni Drake. *Ibid.*, Bull. 34, 701.

mollicola Osborn and Drake. *Ibid.*, Bull. 34, 701.

ulmi Osborn and Drake. *Ibid.*, Bull. 34, 702.

Stephanitis Stål.

pyrioides Scott. Conn. Geol. Nat. Hist. Surv., Bull. 34, 704.

Gelchossa Kirkaldy.

Leptostyla Stål.

heidemanni Osborn and Drake. Conn. Geol. Nat. Hist. Surv., Bull. 34, 705. (Included in Bull. 31, 77, as *Leptostyla clitoriae* Heidemann, a distinct species.)

Physatocheila Fieber.

brevirostris Osborn and Drake. Conn. Geol. Nat. Hist. Surv., Bull. 34, 706.

Leptoypha Stål.

mutica (Say). This species listed erroneously in Bull. 31, 77, has not yet been recorded from Connecticut, though probably occurring here.

Alveotingis Osborn and Drake.

grossocerata Osborn and Drake. Conn. Geol. Nat. Hist. Surv., Bull. 34, 707.

Family LYGÆIDÆ.

Lygæus Fabricius.

bicrucis Say. Compl. Writ., ii. 246.

kalmii Stål (includes *reclivatus* of Check-List). Conn. Geol. Nat. Hist. Surv., Bull. 34, 713.

Nysius Dallas.

thymi Wolff. Conn. Geol. Nat. Hist. Surv., Bull. 34, 715.

Belonochilus Uhler.

numenius (Say). Conn. Geol. Nat. Hist. Surv., Bull. 34, 715.

Geocoris Fallen.

uliginosus (Say) var. **uliginosus** (Say). Conn. Geol. Nat. Hist. Surv., Bull. 34, 720.

Ligyrocoris Stål.

depictus Barber. Conn. Geol. Nat. Hist. Surv., Bull. 34, 725.

Antillocoris Kirkaldy.

pallidus (Uhler). Conn. Geol. Nat. Hist. Surv., Bull. 34, 731.

Aphanus Distant.

umbrosus (Distant). Conn. Geol. Nat. Hist. Surv., Bull. 34, 733 (not *plenus* Distant as listed in Bull. 31, 79).

Drymus Fieber.

crassus Van Duzee. Conn. Geol. Nat. Hist. Surv., Bull. 34, 734.

unus Say. *Ibid.*, Bull. 34, 734.

Scoloposthetus Fieber.

diffidens Horvath. Conn. Geol. Nat. Hist. Surv., Bull. 34, 735.

Family ARADIDÆ.

Neuroctomus Fieber.

simplex Uhler. Conn. Geol. Nat. Hist. Surv., Bull. 34, 740.

Family COREIDÆ.

Leptoglossus Guérin.

corculus (Say). Conn. Geol. Nat. Hist. Surv., Bull. 34, 748.

fulvicornis Westwood. *Ibid.*, Bull. 34, 747.

Family CORIZIDÆ.

Corizus Fallen.

crassicornis Linnæus. Conn. Geol. Nat. Hist. Surv., Bull. 34, 752.

Family PENTATOMIDÆ.

Tetyra Fabricius.

bipunctata Herrich-Schæffer. Heterop. East. N. Am., 38. (G.H.P.)

Euschistus Dallas.

politus Uhler. Conn. Geol. Nat. Hist. Surv., Bull. 34, 762.

Zicrona Amyot and Serville.

cærulea (Linnæus). Conn. Geol. Nat. Hist. Surv., Bull. 34, 776. (Adventitious specimens have been found in boxes of nursery stock imported from France).

Family CYDNIDÆ.

Galgupha Amyot and Serville.

atra (Amyot and Serville). Conn. Geol. Nat. Hist. Surv., Bull. 34, 777. Included in Bull. 31, 84, as *Thyreocoris ater*.

nitiduloides (Wolff). *Ibid.*, Bull. 34, 777. Listed in Bull. 31, 84, under *Thyreocoris*.

Corimelæna White.

lateralis (Fabricius). Conn. Geol. Nat. Hist. Surv., Bull. 34, 778. (Listed in Bull. 31, 84, under *Thyreocoris*).

pulicaria (Germar). *Ibid.*, Bull. 34, 778. (Listed in Bull. 31, 84, as *Thyreocoris pulicarius*).

Pangæus Stål.

bilineatus (Say). Conn. Geol. Nat. Hist. Surv., Bull. 34, 779.

Order LEPIDOPTERA*.

Butterflies and Moths

Suborder **HETEROCERA.**

Family ACROLOPHIDÆ.

Acrolophus Poey.

arcanellus Clemens instead of *Pseudanophora arcanella* as given in Check-List, Bull. 31, 85.

Family LYONETIDÆ.

Bedellia Stainton.

somulentella Zeller. Conn. Agr. Expt. Sta., Bull. 349, 450.

Lyonetia Hubner.

speculella Clemens. Tin. N. A., 184.

Family GRACILARIDÆ.

(TINEIDÆ of Check-List.)

Gracilaria Haworth.

azaleella Brants. *azaleae* Busck. Insec. Insc. Menstr., ii, 1.

Lithocolletis Hubner.

blancardella Fabricius. *deceptella.* Can. Ent., xi, 73.

bethunella Chambers instead of *bethuniella* as given in Check-List, Bull. 31, 88.

hamadryadella Clemens instead of *hamadryella* as given in Check-List, Bull. 31, 89.

Coleophora Hubner.

unicolorella Chambers. Can. Ent., vi, 129.

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*Arranged in reverse order from Barnes and McDunnough, Check-List of the Lepidoptera of Boreal America, 1917. The arrangement of the Lepidoptera in Bulletin 31 followed Dyar's List of North American Lepidoptera, 1902, in reverse order.

(W. E. B.)

Family YPONOMEUTIDÆ.

Argyresthia Hubner.

thuiella Packard. Rept. Conn. Agr. Expt. Sta., 1921, 157.

Plutella Schrank.

porrectella Linnæus. Conn. Agr. Expt. Sta., Bull. 383, 358.

Family TINEIDÆ.

Nepticula Von Heyden.

sericopeza Zeller. (E.P.F.)

Family GLYPHIPTERYGIDÆ.

Hemerophila Hubner.

pariana Clerck. *Simaethis.* Apple and thorn skeletonizer. Conn. Agr. Expt. Sta., Bull. 246; Rept. 1923, 312.

Family HELIOZELIDÆ.

Antispila Hubner.

nyssæfoliella Clemens. Tin. N. A., 102.

viticordifoliella Clemens. *Ibid.*, 142.

Coptodisca Walsingham.

splendoriferella Clemens. Resplendent shield bearer. Tin. N. A., 105.

Family TORTRICIDÆ.

Hemimene Hubner.

albolineana Kearfott. *Lipoptycha.* Bull. Am. Mus. Nat. Hist., xxiii, 160.

Eulia Hubner.

juglandana Fernald. Can. Ent., xi, 155.

pinatubana Kearfott. *Ibid.*, xxxvii, 9.

Ancylis Hubner.

intermediana Kearfott. Trans. Am. Ent. Soc., xxxiii, 56.

Eucosma Hubner.

gloriola Heinrich. Proc. Wash. Ent. Soc., 33, 196.

Argyroploce Hubner.

Olethreutes Hubner.

chionosema Zeller. Vehr. Zool.-Bot. Ges. Wien., xxv, 265.

hemidesma Zeller. Rept. Conn. Agr. Expt. Sta., 1917, 364, Pl. xxxi, b.

Rhyacionia Hubner.

Evetria Hubner.

buoliana Schiffermüller. European pine shoot moth. U. S. D. A. Bull. 170.

frustrana Comstock. Nantucket pine moth. 5th Rept. U. S. Ent. Commission, 745.

rigidana Fernald. 5th Rept. U. S. Ent. Commission, 754.

Family AEGERIIDÆ (or SESIIDÆ).

Aegeria Fabricius.

tibialis Harris. Mon. Ses. N. A., 259.

Synanthedon Hubner.

exitiosa Say, form **edwardsi** Beutenmüller. Mon. Ses. N. A., 269.

pyri Harris. *Ibid.*, 297.

rhododendri Beutenmüller. Rhododendron borer. Rept. Conn. Agr. Expt. Sta., 1922, 347, Pl. xv.

Parharmonia Beutenmüller.

pini Kellicott. Can. Ent., xiii, 5.

Family GELECHIIDÆ.

Gelechia Hubner.

abietisella Packard. Hemlock webworm. Conn. Agr. Expt. Sta., Bull. 247, 374.

Paralechia Busck.

pinifoliella Chambers. N. Y. (Cornell) Agr. Expt. Sta., Mem. 68, 290.

Arogalea Walsingham.

cristifasciella Chambers. N. Y. (Cornell) Agr. Expt. Sta., Mem. 68, 291. (G.H.P.)

Anacampsis Curtis.

levipedella Clemens. Tin. N. A., 207.

Battaristis Meyrick.

Duvita Busck.

vitella Busck. Proc. Wash. Ent. Soc., xviii, 147.

Recurvaria Haworth.

dorsivittella Zeller. *vagatioella* Chambers. Can. Ent., v, 187.

nanella Hubner.

piceælla Kearfott. Jour. N. Y. Ent. Soc., xi, 155.

Evippe Chambers.

prunifoliella Chambers. Can. Ent., v, 186.

Family PYRALIDÆ.

Acrobasis Zeller.

demotella Grote. Proc. Wash. Ent. Soc., x, 41.

Elophila Hubner.

plevie Dyar. Insec. Insc. Menstr., v, 78.

Schoenobius Duponchel.

melinellus Clemens. Ent. Amer., iv, 137.

Galasa Walker.

nigrinodis Zeller. Not *rubidana* Walker, as given in Check-List, Bull. 31, 107.

Pyrausta Schrank.

nubilalis Hubner. European corn borer. Rept. Conn. Agr. Expt. Sta., 1918, 316; U. S. D. A. Farm. Bull. 1046.

Glaphyria Hubner instead of *Glaphria*, as given in Check-List, Bull. 31, 103.

Crambus Fabricius.

polingi Kearfott. Proc. U. S. Nat. Mus., xxxv, No. 1649, 382.

Corcyra Ragonot.

cephalonica Stainton. *Tineopsos theobromae* Dyar. U.S.D.A. Bull. 783. (R.B.F.)

Family PSYCHIDÆ.

Fumea Haworth.

casta Pallas. (Not *Eurycyttarus confederata* Grote and Robinson, as given in the Check-List, Bull. 31, 114.) Psyche, xli, 19.

Family GEOMETRIDÆ.

Abbottana Hulst instead of *Abbotana*, as given in the Check-List, Bull. 31, 115.

Pero Herrich-Schæffer.

honestarius Walker. *Azelina ancetaria* Hubner, *hubnerata* of Check-List, Bull. 31, 116.

Metanema Guenee.

quercivoraria Guenee. Mon. Geom., 544.

Selenia Hubner.

kentaria Grote and Robinson. *Eutrapela*. Trans. Am. Ent. Soc., i, 359.

Hyperetis Guenee.

amicaria Herrich-Schæffer var. **alienaria** Herrich-Schæffer. Mon. Geom., 38.

Plagodis Hubner.

schuylkillensis Grossbeck. Ent. News, xix, 315.

Ellopia Treitschke.

Therina Hubner.

athasaria Walker instead of *athasiara* as given in Check-List, Bull. 31, 117.

Phigalia Duponchel.

olivacearia Morrison. Ent. Amer., iv, 51.

Aethaloptera Hulst.

anticaria Walker instead of *intextata* as given in Check-List, Bull. 31, 118.

Cleora Curtis.

lineata Hulst. *Aethyctera*. Can. Ent., xxx, 192.

Macaria Curtis.

granitata Guenee. *Semiothisa*. Mon. Geom., 285.

Physostegania Warren.

instead of *Psysostegania* as given in Check-List, Bull. 31, 119.

Mesoleuca Hubner.

ruficillata Guenee instead of *ruficilliata* as given in Check-List, Bull. 31, 121.

Rachela Hulst.

bruceata Hulst. Man. of Fruit Ins., 93.

Cosymbia Hubner.

pendulinaria Guenee, instead of *C. lumenaria* of Check-List.

Hæmatopis Hubner instead of *Haematopsis*.

Ptychopoda Curtis.

demissaria Hubner and **inductata** Guenee, belong here instead of under *Eois*, as given in Check-List, Bull. 31, 120.

Acidalia Treitschke.

enucleata Guenee, instead of *Synelis ennucleata* as given in Check-List, Bull. 31, 120.

Euacidalia Packard.

ossularia Hubner instead of *Eois ossularia* as given in Check-List, Bull. 31, 120.

Family DREPANIDÆ.

Drepana Schrank.

bilineata Packard instead of *Falcaria bilineata* as given in Check-List, Bull. 31, 122.

Family BOMBYCIDÆ.

Bombyx Linnæus.

mori Linnæus. Silk worm. Cultivated. Moth Book, 315.

Family LYMANTRIIDÆ (LIPARIDÆ).

Stilpnotia Westwood and Humphrey.

salicis Linnæus. Satin moth. Conn. Agr. Expt. Sta., Bull. 285, 264.

Olene Hubner.

basiflava Packard. Contr. Nat. Hist. Lepidop., ii, 54.

Family NOTODONTIDÆ.

Datana Walker.

drexeli Henry Edwards. Bomb. Moths, 112.

Family NOCTUIDÆ.

Bomolocha Hubner.

abalienalis Walker instead of *abalinealis* as given in Check-List, Bull. 31, 126.

sordidula (Grote). *Hypena sordidula.* Trans. Am. Ent. Soc., iv, 103.

Gabara Walker.

Eucalyptra Morrison.

bipuncta Morrison. Ann. Lyc. Nat. Hist. N. Y., xi, 104.

Eosphoropteryx Dyar.

thyatyroides Guenee instead of *thyatiroides* as given in Check-List, Bull. 31, 134.

Raphia Hubner.

frater Grote. Proc. Phila. Ent. Soc., 2, 435.

Autographa Hubner.

falcifera Kirby instead of *falcigera* as given in Check-List, Bull. 31, 134.

Doryodes Guenee.

bistrialis Geyer instead of *bistriaris* as given in Check-List, Bull. 31, 133.

Lithacodia Hubner.

muscosula Guenee instead of *Eustrotia muscoscula* as given in Check-List, Bull. 31, 133. Most other species of *Eustrotia* belong in *Lithacodia.*

Cosmia Ochsenheimer.

orina Guenee instead of *Calymnia orina* as given in Check-List, Bull. 31, 135.

palacea Esper should be dropped.

Leuconycta Hampson.

diphteroides Guenee instead of *Microcoelia dipteroides* as given in Check-List, Bull. 31, 146.

Polygrammate Hubner.

hebræicum Hubner instead of *Polygrammata hebraicum* as given in Check-List, Bull. 31, 145.

Macronoctua Grote.

onusta Grote. Iris borer. Rept. Peabody Acad. Sci., vi, 27.

Oligia Hubner.

(*Hadena* Schrank in part.)

fractilinea Grote instead of *fractilinen* as given in Check-List, Bull. 31, 144.

Trachea Hubner.

inordinata Morrison. Proc. Acad. Nat. Sci. Phil., 1875, 63. (B.H.W.)

Septis Hubner.

(*Hadena* Schrank in part.)

lignicolora Guenee instead of *lignicolor* as given in Check-List, Bull. 31, 144.

Magnusa Walker.

orbifera Walker, form **divaricata** Grote, instead of *dissidens* Felder as given in Check-List, Bull. 31, 143.

Parastichtis Hubner.

bicolorago Guenee, form **ferruginoides** Guenee, instead of *Orthosia* as given in Check-List, Bull. 31, 136.

Conistra Hubner.

Scopelosoma Curtis.

indirecta Walker. *moffatiana* Grote. Moth Book, 218.

Xylena Ochsenheimer.

cineritia Grote instead of *Calocampa cineritia* as given in Check-List, Bull. 31, 138; *curvimacula* Morrison and *nupera* Lintner also belong in *Xylena*.

Graptolitha Hubner.

bethunei Grote and Robinson instead of *Xylina bethunei* as given in Check-List, Bull. 31, 138.

laticinerea Grote. Bull. Buff. Soc. Nat. Sci., ii, 27.

Orthosia Ochsenheimer.

hibisci Guenee, form **insciens** Walker, instead of *Graphiphora alia* Guenee of Check-List, Bull. 31, 138.

revicta Morrison. *subterminata* Smith. Proc. Bost. Soc. Nat. Hist., xviii, 241.

Morrisonia Grote.

evicta Grote, form **vomerina** Grote. Bull. Buff. Soc. Nat. Sci., i, 84.

Nephelodes Guenee.

emmedonia Cramer, form **violans** Guenee, instead of *minians* var. *violans*, as given in Check-List, Bull. 31, 139.

Eriopyga Guenee.

oviduca Guenee instead of *Graphiphora oviducta* as given in Check-List, Bull. 31, 138. *Orthodes crenulata* Butler, *O. cynica* Guenee and *O. vecors* Guenee, also belong in this genus.

Polia Ochsenheimer.

Mamestra Ochsenheimer.

lustralis Grote. Can. Ent., vii, 223.

Euretagrotis Smith.

instead of *Euretagrotis* as given in Check-List, Bull. 31, 142.

Agrotis Ochsenheimer.

unicolor Walker instead of *Noctua clandestina* Harris, as given in Check-List, Bull. 31, 142.

Schinia Hubner.

arcigera Guenee instead of *arcifera* as given in Check-List, Bull. 31, 135.

Apatela Hubner.

rubricoma Guenee. Proc. U. S. Nat. Mus., xxi, 42.

Family SPHINGIDÆ.

Erinnyis Hubner.

ello Linnæus. *Dilophonota ello.* Syst. Nat., 491.

Suborder **RHOPALOCERA.**

Family HESPERIDÆ.

Thanaos Boisduval.

brizo Boisduval and LeConte. Sleepy dusky-wing. Comst. Butt., 297.

horatius Scudder and Burgess. *petronius* Lintner. Proc. Bost. Soc. Nat. Hist., xiii, 301.

lucilius Lintner. Comst. Butt., 298. (A.B.K.)

Erynnis Schrank.

Pamphila Fabricius.

metea Scudder. Butt. Book (Rev. Ed., 1931), 375.

leonardus Harris. Leonard's skipper. Comst. Butt., 277.

sassacus Harris. (Not *Erynnis sassicus* as given in Check-List). Indian skipper. Comst. Butt., 276.

Polites Scudder.

cernes Boisduval and LeConte. (Not *Thymelicus* as given in Check-List). Tawny-edged skipper. Comst. Butt., 281.

manataaqua Scudder. Cross-line skipper. *Ibid.*, 286.

mystic Scudder. (Not *Thymelicus* as given in Check-List). Long-dash. *Ibid.*, 281.

peckius Kirby. Yellow spot. *Ibid.*, 282.

taumas Fabricius. Butt. Book (Rev. Ed., 1931), 381.

Catia Godman and Salvin.

otho Smith and Abbott, form **agcremet** Scudder. (Not *Thymelicus* as given in Check-List). Comst. Butt., 279.

Poanes Scudder.

hobomok Harris. The Mormon. Comst. Butt., 275.
hobomok form **pocohontas** Harris. *Ibid.*, 275.

Atrytone Scudder.

logan Edwards. Comst. Butt., 288. (A.B.K.)

Euphyes Scudder.

bimacula Grote and Robinson. *Limochroes* of Check-List.

vestris Boisduval. *metacomet* Harris. Comst. Butt., 283.

Atrytonopsis Godman and Salvin.

hianna Scudder. Butt. Book (Rev. Ed., 1931), 394.

verna Edwards. *Euphyes verna* of Check-List. Little glass-wing. Comst. Butt., 283.

Amblycirtes Scudder.

samoset Scudder. *hegon*. Butt. Book (Rev. Ed., 1931), 362.

Lerema Scudder.

accius Smith and Abbot. Lep. Ins. Ga., Pl. 23. (A.B.K.)

Family LYCÆNIDÆ.

Heodes Dalman.

epixanthe Boisduval and LeConte. Comst. Butt., 240. (A.B.K.)

hypophlæas Boisduval ab. **obliterata** Scudder. Butt. East. U. S. and Can., ii, 1001. (A.B.K.)

Lycænopsis Felder.

Cyaniris Dalman.

pseudargiolus Boisduval and LeConte, form **verna pseudargiolus.** (A.B.K.)

pseudargiolus form **verna lucia** Kirby. Papilio, iii, 85.

pseudargiolus form **verna marginata** Edwards. *Ibid.*, iii, 87.

pseudargiolus form **æstivalis neglecta** Edwards. Proc. Acad. Nat. Sci. Phila., 1862, 56.

pseudargiolus form **æstivalis neglecta-major** Tutt. (A.B.K.)

Strymon Hubner.

S. titus, *Uranotes melinus*, and *Thecla acadica*, *calanus*, *edwardsi*, and *liparops* of Check-List belong here. Comst. Butt., 234.

Incisalia Scudder (not Minot).

angustus Kirby. Brown elfin. Comst. Butt., 231.

henrici Grote and Robinson. *Thecla henrici*. Butt. Book (Rev. Ed., 1931), 226. (A.B.K.)

Family NYMPHALIDÆ.

Basilarchia Scudder.

archippus Cramer, ab. **lanthanis** Cook and Watson. (A.B.K.)

Polygonia Hubner.

comma form **dryas** Edwards. Comst. Butt., 140. (R.C.W.Jr.)

Phyciodes Doubleday.

tharos Drury, form **verna marcia** Edwards. Comst. Butt., 130. (A.B.K.)

Family SATYRIDÆ (AGAPETIDÆ).

Cercyonis Speyer.

alope Fabricius var. **maritima** Edwards. Comst. Butt., 185. (A.B.K.)

Family PIERIDÆ.

Eurymus Swainson.

eurytheme Boisduval. Orange Sulphur. Comst. Butt., 95.

philodice Godart ab. **pallidice** Scudder. Butt. East. U. S. and Can., ii, 1115. (A.B.K.)

philodice form **verna anthyale** Hubner. Zutr. Exot. Schmett., ii, 21. (A.B.K.)

Callidryas Boisduval and LeConte.

philea Linnæus. Red-barred Sulphur. Comst. Butt., 87. (J.R.H.)

Family PAPILIONIDÆ.

Papilio Linnæus.

marcellus Cramer. *Iphiclides ajax* Linnæus. *Iphidicles ajax* of Check-List. Comst. Butt., 49.

Order **SIPHONAPTERA.**

Fleas

Family PULICIDÆ.

Ctenophthalmus Kolenati.

pseudagyrtes Baker. On short-tailed shrew, *Blarina brevicauda*. Proc. U. S. Nat. Mus., xxvii, 421, 1904.

Ceratophyllus Curtis.

arctomys Baker. On woodchuck. Proc. U. S. Nat. Mus., xxvii, 411, 1904.

gallinæ Schrank. European hen flea. Jour. Econ. Ent., xx, 132; Rept. Conn. Agr. Expt. Sta., 1927, 279. (B.H.W.)

Ctenocephalides Stiles and Collins.

Ctenocephalus Kolenati.

felis Bouché. Cat flea. Matheson, Medical Entomology, 418.

Spilopsyllus Baker.

simplex Baker. *Pulex inaequalis* var. *simplex*. On fox and rabbit. Can. Ent., xxvii, 164.

Order **DIPTERA.**

Flies

Family TIPULIDÆ.

Gnophomyia Osten Sacken.

tristissima Osten Sacken. Mon. N. A. Dipt., iv, 175. (B.T.R.L.)

Pseudolimnophila Alexander.

inornata Osten Sacken. Mon. N. A. Dipt., iv, 219. (B.T.R.L.)

Limnophila Macquart.

consimilis Dietz. Trans. Am. Ent. Soc., xlvii, 255.
lutea Doane. Jour. N. Y. Ent. Soc., viii, 191.

Pilaria Sintenis.

quadrata Osten Sacken. Mon. N. A. Dipt., iv, 230.

Dolichopeza Curtis.

albipes Johnson. Proc. Bost. Soc. Nat. Hist., 34, 120. (R.B.F.)
obscura Johnson. *Ibid.*, 34, 122.
venosa Johnson. *Ibid.*, 34, 122.

Tipula Linnæus.

angulata Loew. Cent., v, 223. (R.B.F.)
apicalis Loew. *Ibid.*, iv, 161.
duplex Walker. List Dipt. Brit. Mus., i, 66.
ignobilis Loew. Cent., iv, 164.
nobilis Loew. *Ibid.*, v, 224. (R.B.F.)
perlongipes Johnson. Proc. Bost. Soc. Nat. Hist., 34, 131.

Family DIXIDÆ.

Dixa Meigen.

clavata Loew. Cent., viii, 116.
modesta Johannsen. Psyche, xxx, 56.
similis Johannsen. *Ibid.*, xxx, 57.
terna Loew. Cent., iii, 104. (A.B.C.)

Family CULICIDÆ.

Culex Linnæus.

apicalis Adams. *territans* of Check-List. Mosq. of the Amer., 392.

Uranotænia Arribálzaga.

sapphirina Osten Sacken. Mosq. of the Amer., 420.

Orthopodomyia Theobald.

signifera Coquillett. Mosq. of the Amer., 397.

Aëdes Meigen.

dorsalis Meigen. *currei* Coquillett. *onondagensis* Felt. Mosq. of the Amer., 200.

excrucians Walker. *abfitchii* Felt. *Ibid.*, 203.

stimulans Walker. *subcantans* Felt. *Ibid.*, 208.

trichurus Dyar. *cinereoborealis* Felt and Young. *Ibid.*, 197.

Anopheles Meigen.

crucians Wiedemann. Mosq. of the Amer., 451.

walkeri Theobald. *Ibid.*, 455.

Corethra Meigen.

culiciformis (DeGeer). *karnerensis* Felt. Insec. Insc. Menstr., xii, 206. (C.W.J.)

Chaoborus Lichtenstein.

Sayomyia Coquillett.

albatus Johnson. Occ. Papers Bost. Soc. Nat. Hist., 5, 11.

punctipennis (Say). *Corethra punctipennis* Say. Insec. Insc. Menstr., xii, 213. (B.H.W.)

trivittatus Loew. *Corethra trivittatus* Loew. Cent., ii, 56.

Family PSYCHODIDÆ.

Psychoda Latreille.

signata Banks. Can. Ent., xxxiii, 274.

Family CHIRONOMIDÆ.

Ceratopogon Meigen.

levis Coquillett. Proc. U. S. Nat. Mus., xxiii, 604. (H.L.V.)

Palpomyia Meigen.

nebulosa Malloch. Bull. Ill. St. Lab. Nat. Hist., x, 322. (H.L.V.)

Tanypus Meigen.

melanops Wiedemann. Bull. Ill. St. Lab. Nat. Hist., x, 369.

Protenthes Johannsen.

culiciformis (Linnæus). Bull. Ill. St. Lab. Nat. Hist., x, 385.

Clinotanypus Kieffer.

scapularis Loew. Cent., vii, 1, 62.

Chironomus Meigen.

plumosus Linnæus. Bull. Ill. St. Lab. Nat. Hist., x, 447.
utahensis Malloch. *Ibid.*, x, 438.
varipennis Coquillett. *Ibid.*, x, 427.
viridicollis Van der Wulp. *Ibid.*, x, 457.
zonopterus Mitchell. Jour. N. Y. Ent. Soc., xvi, 12.

Chasmatonotus Loew.

unimaculatus Loew. Cent., v, 1, 212.

Family ITONIDIDÆ (CECIDOMYIDÆ).

Porricondyla Rondani.

sp. (B.T.R.L.)

Rhabdophaga Westwood.

brassicoides (Walsh). Key to Am. Insect Galls, 31.
salicis (Schrank). Rept. N. Y. State Ent., 29, 96.
triticoides (Walsh). *Ibid.*, 29, 88.

Dasyneura Rondani.

corticis Felt. Key to Am. Insect Galls, 34.
parthenocissi Stebbins. *Ibid.*, 165.
pyri Kieffer. Conn. Agr. Expt. Sta., Bull. 368, 254.
rhodophaga (Coquillett). Rose gall midge. Rept. N. Y. State Ent., 29, 130.
ulmea Felt. Key to Am. Insect Galls, 119, 120.

Lasioptera Meigen.

clavula Beutenmüller. Key to Am. Insect Galls, 174.

Diarthronomyia Felt.

hypogæa (Loew). Chrysanthemum gall midge. Rept. Conn. Agr. Expt. Sta., 1919, 161, Pl. xxxi.

Clinorhyncha Loew.

eupatorifloræ Felt. Rept. N. Y. State Ent., 23, 333.

Phytophaga Rondani.

violicola (Coquillett). *Contarinia violicola.* Violet gall midge. Rept. N. Y. State Ent., 30, 204.

Rhopalomyia Rubsaamen.

astericaulis Felt. Rept. N. Y. State Ent., 22, 159.
clarkei Felt. *Ibid.*, 30, 239.
solidaginis Loew. *Ibid.*, 30, 246.

Sackenomyia Felt.

viburnifolia Felt. Key to Am. Insect Galls, 187.

Schizomyia Kieffer.

coryloides Walsh and Riley. Key to Am. Insect Galls, 166.
pomum Walsh and Riley. *Ibid.*, 166.

Oligotrophus Latreille.

betulæ Winnertz. Rept. N. Y. State Ent., 23, 357.

Cincticornia Felt.

pilulæ (Walsh). Rept. N. Y. State Ent., 31, 164.

Obolodiplosis Felt.

robiniæ (Haldeman). *Cecidomyia robiniae.* Rept. N. Y. State Ent., 34, 152.

Parallelodiplosis Rubsaamen.

florida Felt. Rept. N. Y. State Ent., 33, 411.

Mycodiplosis Rubsaamen.

alternata Felt. Rept. N. Y. State Ent., 33, 197.

Caryomyia Felt.

holotricha (Osten Sacken). Rept. N. Y. State Ent., 34, 101.
tubicola Osten Sacken. *Ibid.*, 23, 382, 388.

Monarthropalpus Rubsaamen.

buxi (Laboulbene). Box midge or leaf-miner. Rept N. Y. State Ent., 30, 42.

Lestodiplosis Kieffer.

cratægifolia Felt. Rept. N. Y. State Ent., 34, 130, 132.

eupatorii Felt. *Ibid.*, 34, 132, 146.

Retinodiplosis Kieffer.

inopis Osten Sacken. Gouty pitch pine midge. Key to Am. Insect Galls, 15.

Cecidomyia Meigen.

balsamicola Lintner. Key to Am. Insect Galls, 19.

deserta Patton. Can. Ent., xxix, 247.

foliora Russell and Hooker. Ent. News, xix, 350.

pellex Osten Sacken. Key to Am. Insect Galls, 179.

pinirigidæ Packard. *Ibid.*, 17.

poculum Osten Sacken. Oak spangles. *Ibid.*, 107.

reniformis Stebbins. *Ibid.*, 138.

viticola Osten Sacken. Bull. N. Y. State Mus., 257, 65.

Family MYCETOPHILIDÆ.

Bolitophila Meigen.

cinerea Meigen. Me. Agr. Expt. Sta., Bull. 172, 219.

disjuncta Loew. *Ibid.*, Bull. 172, 218.

hybrida Meigen. *Ibid.*, Bull. 172, 219.

Palaeoplatyura Meunier.

johnsoni Johannsen. Me. Agr. Expt. Sta., Bull. 172, 226.

Platyura Meigen.

elegans Coquillett. Me. Agr. Expt. Sta., Bull. 172, 254.

fascipennis Say. *Ibid.*, Bull. 172, 257.

genualis Johannsen. *Ibid.*, Bull. 172, 262.

inops Coquillett. *Ibid.*, Bull. 172, 252.

mendosa Loew. *Ibid.*, Bull. 172, 259.

Macrocera Meigen.

formosa Loew, var. **indigena** Johannsen. Me. Agr. Expt. Sta., Bull. 172, 270.

Tetragoneura Winnertz.

bicolor Coquillett. Me. Agr. Expt. Sta., Bull. 180, 132.

Sciophila Meigen.

incallida Johannsen. Me. Agr. Expt. Sta., Bull. 180, 139.

Polylepta Winnertz.

obediens Johannsen. Me. Agr. Expt. Sta., Bull. 180, 147.

Neoempheria Osten Sacken.

illustris Johannsen. Me. Agr. Expt. Sta., Bull. 180, 163.

Mycomya Rondani.

flavohirta (Coquillett). Me. Agr. Expt. Sta., Bull. 180, 182.
imitans Johannsen. *Ibid.*, Bull. 180, 177.
tantilla (Loew). *Ibid.*, Bull. 180, 175.

Gnoriste Meigen.

grœnlandica Lundbeck. Me. Agr. Expt. Sta., Bull. 196, 257.

Boletina Stæger.

cincta Johannsen. Me. Agr. Expt. Sta., Bull. 196, 270.
obscura Johannsen. *Ibid.*, Bull. 196, 270.
sciarina Stæger. *Ibid.*, Bull. 196, 275.

Leia Meigen.

oblectabilis Loew. Me. Agr. Expt. Sta., Bull. 196, 286.
sublunata (Loew). *Glaphyroptera sublunata*. *Ibid.*, Bull. 196, 289.

Trichonta Winnertz.

diffissa Johannsen. Me. Agr. Expt. Sta., Bull. 196, 305.

Exechia Winnertz.

cincinnata Johannsen. Me. Agr. Expt. Sta., Bull. 200, 69.

Dynatosoma Winnertz.

fulvida Coquillett. Me. Agr. Expt. Sta., Bull. 200, 76.

Mycetophila Meigen.

fastosa Johannsen. Me. Agr. Expt. Sta., Bull. 200, 91.
monochæta Loew. *Ibid.*, Bull. 200, 94.
mutica Loew. *Ibid.*, Bull. 200, 93.
punctata Meigen. *Ibid.*, Bull. 200, 92.

Family SCIARIDÆ.

Sciara Pettey.

coprophila (Lintner). Me. Agr. Expt. Sta., Bull. 200, 136.

Family BIBIONIDÆ.

Bibio Geoffroy.

abbreviatus Loew. Cent., v, 9, 216.
fraternus Loew. *Ibid.*, v, 8, 216.

Dilophus Meigen.

spinipes Say. *dimidiatus* Loew of Check-List. Compl. Writ., ii, 71.

Family SCATOPSIDÆ.

Ectætia Enderlein.

clavipes Loew. *Scatopse.* Linn. Ent., i, 333.

Family SIMULIIDÆ.

Prosimulium Roubaud.

hirtipes Fries. *Simulium.* Bur. Ent., Tech. Ser., 26, 18.

Family RHAGIONIDÆ (LEPTIDÆ).

Solva Walker.

Xylomyia Rondani.

tenthredinoides Van der Wulp. Ent. News, xiv, 24.

Family CŒNOMYIIDÆ.

Arthropeas Loew.

americana Loew. Cent., i, 16, 10.

Family STRATIOMYIDAE.

Microchrysa Loew.

polita (Linnæus). Faun. Suec., 1854.

Nemotelus Geoffroy.

melanderi Banks. Can. Ent., lii, 65.

Family TABANIDÆ.

Buplex Austen.

Pangonia of Authors.

tranquilla (Osten Sacken). Prodrome, 1, 367.

Chrysops Meigen.

excitans Walker. Prodrome, 1, 373.
striata Osten Sacken. *Ibid.*, 1, 391.

Tabanus Linnæus.

melanocerus Wiedemann. Prodrome, 11, 440.
sagax Osten Sacken. *Ibid.*, 11, 452. (H.L.J.)
trispilus Wiedemann var. **sodalis** Williston. Kan. Acad. Sci., x, 139.
reinwardtii Wiedemann. Prodrome, 11, 461. (K.F.C.)

Family CYRTIDÆ.

Ogcodes Latreille.

Oncodes of Authors.

borealis Cole. Trans. Am. Ent. Soc., xlv, 68. (B.H.W.)
incultus Osten Sacken. Bull. U. S. Geol. Geog. Surv. Terr., iii, 179.

Acrocera Meigen.

bimaculata Loew. Trans. Am. Ent. Soc., xlv, 50. (J.P.J.)

Family BOMBYLIIDÆ.

Villa Lioy.

Anthrax of Authors.

fulviana (Say) var. **nigricauda** (Loew). Trans. Am. Ent. Soc., xiv, 167.
hypomelas Macquart. *Ibid.*, xiv, 166.
lateralis (Say) var. **gracilis** (Macquart). *Ibid.*, xix, 178.

Bombylius Linnæus.

incanus Johnson. Psyche, xiv, 97. (W.E.B.)

Geron Meigen.

subauratus Loew. Cent., iv, 55, 188.
vitripennis Loew. *Ibid.*, ix, 77, 211.

Family THEREVIDÆ.

Epomyia Cole.

pictipennis Wiedemann. Proc. U. S. Nat. Mus., 62, Art. 4, 30. (W.E.B.)

Psilocephala Zetterstedt.

flavipennis Cole. Proc. U. S. Nat. Mus., 62, 42.
frontalis Cole. *Ibid.*, 62, 40.

Thereva Latreille.

bella Kröber. Proc. U. S. Nat. Mus., 62, 101.

Family ASILIDÆ.

Cyrtopogon Loew.

lutatius (Walker). Ent. Amer., xvi, 69.

Holopogon Loew.

tibialis Curran. Can. Ent., lv, 207.

Heteropogon Loew.

macerinus Walker. Trans. Am. Ent. Soc., xxxv, 323. (S.W.B.)

Cerotainia Schiner.

macrocera (Say). *Laphria macrocera*. Compl. Writ., ii, 67.

Pogonosoma Rondani.

dorsatum Say. Amer. Ent., i, 13. (R.B.F.)

Dasyllis Loew.

divisor Banks. Bull. Brook. Ent. Soc., xii, 53.
sacrator Walker. Trans. Am. Ent. Soc., xi, 26. (S.W.B.)

Andrenosoma Rondani.

fulvicauda (Say). *Laphria*. Compl. Writ., ii, 67. (K.F.C.)

Laphria Meigen.

franciscana Bigot. Trans. Am. Ent. Soc., xii, 54. (C.H.C.)
index McAtee. Proc. Wash. Ent. Soc., 22, 23. (C.H.C.)
sadalis Walker. List, ii, 378. (C.H.C.)
sericea Say. Compl. Writ., i, 12.

Proctacanthus Macquart.

rufus Williston. Trans. Am. Ent. Soc., xii, 74.

Asilus Linnæus.

fuscatus Hine. Ohio Nat., 7, 117. (W.E.B., C.W.J.)
latipennis Hine. Ann. Ent. Soc. Am., ii, 152.
lecythus Walker. *femoralis* Macquart. *Ibid.*, ii, 145.
piceus Hine. *Ibid.*, ii, 149. (R.B.F.)

Family DOLICHOPODIDÆ.

Diaphorus Meigen.

opacus Loew. Mon. N. A. Dipt., ii, 160.

Chrysotus Meigen.

bellus Van Duzee. Bull. Buff. Soc. Nat. Sci., xiii, 39.
choricus Wheeler. Psyche, v, 357.
pallipes Loew. Mon. N. A. Dipt., ii, 183.
vulgaris Van Duzee. Bull. Buff. Soc. Nat. Sci., xiii, 15.

Campsicnemus Haliday.

hirtipes Loew. Mon. N. A. Dipt., ii, 193.

Nematoproctus Loew.

flavicoxa Van Duzee. Psyche, xxxvii, 168.
varicoxa Van Duzee. *Ibid.*, xxxvii, 170.

Neurigonia Rondani.

floridula Wheeler var. **infuscata** Van Duzee. Bull. Buff. Soc. Nat. Sci., xiii, 39.
lateralis (Say). Compl. Writ., ii, 362.

Thinophilus Wahlberg.

ochrifacies Van Duzee. Bull. Buff. Soc. Nat. Sci., xiii, 101.

Medeterus Fischer Von Waldheim.

veles Loew. Mon. N. A. Dipt., ii, 219.

Thrypticus Gerstæcker.

muhlenbergiæ Johannsen and Crosby. Psyche, xx, 164.

Dolichopus Latreille.

aurifacies Aldrich. U. S. Nat. Mus., Bull. 116, 238.
defectus Van Duzee, Cole and Aldrich. *Ibid.*, Bull. 116, 143.
flavilacertus Van Duzee, Cole and Aldrich. *Ibid.*, Bull. 116, 110. (R.B.F.)

fulvipes Loew. *Ibid.*, Bull. 116, 187.
gratus Loew. *Ibid.*, Bull. 116, 68.
ornatipennis Van Duzee, Cole and Aldrich. *Ibid.*, Bull. 116, 132.
setosus Loew. *Ibid.*, Bull. 116, 154. (R.B.F.)
sincerus Melander. *Ibid.*, Bull. 116, 117.
socius Loew var. **gladius** Van Duzee, Cole and Aldrich. *Ibid.*, Bull. 116, 135.
variabilis Loew var. **gracilis** Aldrich. *Ibid.*, Bull. 116, 191. (R.B.F.)

Hercostomus Loew.

Gymnopternus Loew.

despicatus Loew. Mon. N. A. Dipt., ii, 90.
exilis Loew. *Ibid.*, ii, 84.

Paraclius Loew.

claviculatus Loew. Cent., vii, 83, 105.
hybridus Melander. Can. Ent., xxxii, 141.
vicinus Aldrich. Trans. Am. Ent. Soc., xxx, 277.

Pelastoneurus Loew.

abbreviatus Loew. Mon. N. A. Dipt., ii, 338.

Family EMPIDIDÆ.

Platypalpus Macquart.

trivialis Loew. Trans. Am. Ent. Soc., xxviii, 216.

Trachypeza Meigen.

Tachydromia Meigen.

rostrata Loew. Trans. Am. Ent. Soc., xxviii, 229.

Hemerodromia Meigen.

scapularis Loew. Trans. Am. Ent. Soc., xxviii, 234.

Hilara Meigen.

tristis Loew. Trans. Am. Ent. Soc., xxviii, 267.

Rhamphomyia Meigen.

candicans Loew. Cent., v, 61, 243.
glabra Loew. *Ibid.*, i, 41, 22. (B.H.W.)
luteiventris Loew. *Ibid.*, v, 57, 241.
phemius Walker. List Dipt., iii, 500.

Family LONCHOPTERIDÆ.

Lonchoptera Meigen.

furcata Fallen var. **lacustria** Meigen.

Family PHORIDÆ.

Chætoneurophora Malloch.

luggeri (Aldrich). Can. Ent., xxiv, 145.

Megaselida Rondani.

Apiochaeta Brues.

sp.

Gymnophora Macquart.

quartomollis Schmitz. *arcuata* of authors. Trans. Am. Ent. Soc., xxix, 381.

Family PLATYPEZIDÆ.

Platypeza Meigen.

tæniata Snow. Jour. N. Y. Ent. Soc., xxiii, 213.
velutina Loew. Cent., vi, 78, 52.

Family SYRPHIDÆ.

Microdon Meigen.

conflictus Curran. Psyche, xxxi, 226. (B.H.W.)
ocellaris Curran. *Ibid.*, xxxi, 227.

Chrysotoxum Meigen.

perplexum Johnson. Occ. Papers Bost. Soc. Nat. Hist., v, 99.
plumeum Johnson. *Ibid.*, v, 99.
radiosum Shannon. Proc. U. S. Nat. Mus., Vol. 69, Art. 11, 10.

Mixogaster Macquart.

breviventris Kahl. Kans. Univ. Quart., vi, 137. (S.W.B.)

Pipiza Fallen.

nigropilosa Williston. Syn. N. A. Syrph., 28.

Pipizella Rondani.

apisaon (Walker). *Pipiza modesta* Loew. *P. pulchella* Williston. Syn. N. A. Syrph., 29.

Heringia Rondani.

salax Loew. *Pipiza radicum* Walsh and Riley. Syn. N. A. Syrph., 25.

Paragus Latreille.

angustifrons Loew. Cent., iv, 64, 193.

Baccha Fabricius.

tarchetius Walker. Syn. N. A. Syrph., 117. (L.B.W.)

Syrphus Fabricius.

disjectus Williston. Syn. N. A. Syrph., 72.
emarginatus (Say). *Ibid.*, 93.
felix (Osten Sacken).
rectus Osten Sacken. Proc. Bost. Soc. Nat. Hist., xviii, 140.
ribesii Linnæus var. **vittafrons** Shannon. Proc. Biol. Soc. Wash., 29, 202.
vitripennis Meigen.

Epistrophe Walker.

fisheri (Walton). Ent. News, xxii, 319.
genualis (Williston). *Syrphus.* Syn. N. A. Syrph., 86.
mentalis (Williston). *Syrphus. Ibid.*, 72.
umbellatorum (Fabricius). *Ibid.*, 85.
xylotoides Johnson. Psyche, xxiii, 80.

Xanthogramma Schiner.

divisa Williston. *Syrphus divisa.* Syn. N. A. Syrph., 92.

Sphærophoria St. Fargeau et Serville.

menthastri (Linnæus). Faun. Suec., 2nd Ed., No. 1819.

Neoascia Williston.

globosa Walker var. **albipes** Bigot. Syn. N. A. Syrph., 112.

Volucella Geoffroy.

bombylans Linnæus var. **americana** Johnson. Psyche, xxiii, 162.

Eristalis Latreille.

nemorum (Linnæus). Syst. Nat., 10th Ed., 591.

Helophilus Meigen.

bilinearis Williston. Syn. N. A. Syrph., 295.

Mallota Meigen.

cimbiciformis (Fallen) var. **bautias** Walker. Syn. N. A. Syrph., 203.

Merodon Meigen.

equestris Fabricius. Bulb fly. Bull. Ent. Res., 23, 434.

equestris Fabricius var. **narcissi** Fabricius. Bulb fly. *Ibid.*, 23, 434.

Xylota Meigen.

anthreas Walker. Syn. N. A. Syrph., 235.

ejuncida Say var. **elongata** Williston. *Ibid.*, 234. (W.E.B.)

flavifrons Walker. *communis* Walker. *obscura* Loew. *Ibid.*, 233.

pigra Fabricius. *Ibid.*, 227.

tuberans Williston. *Myiolepta nigra* Loew. *Ibid.*, 225.

Criohinia Meigen.

verbosa Walker. Syn. N. A. Syrph., 211.

Temnostoma St. Fargeau et Serville.

obscurum Loew. Cent., v, 35, 229.

Eumerus Meigen.

tuberculatus Rondani. A narcissus bulb fly. Monthly Bull. Cal. St. Dept. Agr., xxii, 145.

Family CONOPIDÆ.

Physocephala Schiner.

furcillata (Williston). Trans. Conn. Acad., iv, 336.

Zodion Latreille.

intermedium Banks. Ann. Ent. Soc. Am., ix, 193.

perlongum Coquillett. Can. Ent., xxxiv, 199.

Myopa Fabricius.

virginica Banks. Ann. Ent. Soc. Am., ix, 198.

Family PHASIIDÆ.

Phasia Latreille.

Alophora Desvoidy.

phasioides (Coquillett). Revis. Tachinid., 46.

pulverea (Coquillett). *Ibid.*, 46.

splendida (Coquillett). Proc. U. S. Nat. Mus., xxv, 105.
subopaca (Coquillett). Revis. Tachinid., 47.

Family TACHINIDÆ.

Ennyommopsis Townsend.

nigrifrons (Townsend). Revis. Tachinid., 50.

Cartocometes Aldrich.

io Aldrich. Proc. U. S. Nat. Mus., 76, Art. 15, 10.

Emphanopteryx Townsend.

Cryptomeigenia of Authors.

menapis (Walker). List of Diptera, 1849, pt. iv, 769.
muscoides Curran. Trans. Roy. Soc. Can., 20, 157.
simplex Curran. *Ibid.*, 20, 163.

Centeter Aldrich.

cinerea Aldrich. Proc. U. S. Nat. Mus., 1923, Vol. 63, Art. 6, 4. A parasite of the Japanese beetle, liberated in Bridgeport, July 1928.

Eulasiona Townsend.

comstockii Townsend. Trans. Am. Ent. Soc., xix, 120.

Spathimeigenia Townsend.

hylotomæ Coquillett. Proc. U. S. Nat. Mus., 80, Art. 11, 7.
spiniger Townsend. Proc. Biol. Soc. Wash., 1915, Vol. 28, 19. (M.P.Z.)

Schizotachina Walker.

convecta Walker. Revis. Tachinid., 55. (C.R.E.)

Plectops Coquillett.

melissopodis Coquillett. Revis. Tachinid., 57. (W.E.B.)

Lispidia Coquillett.

palpiger Coquillett. Revis. Tachinid., 57. (B.H.W.)

Euryceromyia Townsend.

robertsoni Townsend. Trans. Am. Ent. Soc., xix, 122.

Euadmontia Townsend.

pergandei (Coquillett). Revis. Tachinid., 54.

Lixophaga Townsend.

variabilis (Coquillett). *Euzenillia aurea* Townsend. Revis. Tachinid., 62.

Pseudomyothyria Townsend.

indecisa Townsend. Revis. Tachinid., 62.

Oedematocera Townsend.

flaveola (Coquillett). Revis. Tachinid., 61.

Paradexodes Townsend.

epilachnæ Aldrich. Proc. Wash. Ent. Soc., 25, 95.

Pseudeuantha Townsend.

coquilletti Aldrich. Insec. Insc. Menstr., ix, 90.

Genea Rondani.

texensis Townsend. Proc. U. S. Nat. Mus., 1916, 51, 312. (W.M.W.)

Myobiopsis Townsend.

similis Townsend. *Leskia analis* Coquillett. Proc. U. S. Nat. Mus., 49, 628.

Siphoclytia Townsend.

robertsoni Townsend. Trans. Am. Ent Soc., xix, 117.

Siphoplagia Townsend.

rigidirostis (Van der Wulp). Revis. Tachinid., 78.

Cylindromyia Meigen.

Ocyptera Latreille.

argentea (Townsend). Revis. Tachinid., 86.

Ernestia Robineau-Desvoidy.

arcuata (Tothill). Can. Ent., liii, 248.

Nemorilla Rondani.

floralis Fallen.

maculosa (Meigen). *Exorista pyste* Walker is a synonym. Proc. U. S. Nat. Mus., 63, 5.

Zenillia Robineau-Desvoidy.

amplexa Coquillett. Revis. Tachinid., 98.

blanda Osten Sacken. *Ibid.*, 92.

blanda var. **virilis** Aldrich and Webber. Proc. U. S. Nat. Mus., 63, Art. 17, 40.
formosa Aldrich and Webber. *Ibid.*, 63, 23.
helvina Coquillett. Revis. Tachinid., 96.
mitis Meigen.
roseanæ Brauer and Bergenstamm. Proc. Wash. Ent. Soc., 23, 127.

Phorocera Robineau-Desvoidy.

hamata Aldrich and Webber. Described from Connecticut. Proc. U. S. Nat. Mus., 63, 62. (W.E.B.)
imitator Aldrich and Webber. *Ibid.*, 63, 63. (A.B.C.)
longiuscula Walker.
sylvatica Aldrich and Webber. Proc. U. S. Nat. Mus., 63, 72. (A.B.C.)
tortricis Coquillett. Revis. Tachinid., 103.

Pseudotachinomyia H. E. Smith.

webberi H. E. Smith. Psyche, xxiv, 54.

Frontina Meigen.

archippivora (Williston). Revis. Tachinid., 107.

Achætoneura Brauer and Bergenstamm.

anisotæ Webber. Proc. U. S. Nat. Mus., 78, Art. 10, 13.
melalophæ Allen. *Ibid.*, 76, Art. 10, 17.

Gymnocarelia Townsend.

ricinorum Townsend. *Sturmia albifrons* Walker of Check-List. Revis. Tachinid., 110.

Pilatea Townsend.

unicolor Smith. Psyche, xxiv, 137.

Parachæta Coquillett.

fusca Townsend. Insec. Insc. Menstr., iv, 11.

Winthemia Robineau-Desvoidy.

datanæ Townsend. Proc. U. S. Nat. Mus., 79, Art. 20, 29.
rufopicta Bigot. *Ibid.*, 79, Art. 20, 31.
sinuata Reinhard. *Ibid.*, 79, Art. 20, 25.

Anctia Robineau-Desvoidy.

Lydella Robineau-Desvoidy.

hyphantriæ Tothill. Can. Dept. Agr., Tech. Bull. 3, 43.

stabulans var. **gricescens** Robineau-Desvoidy. Konowia, 9, 218.

Metachæta Coquillett.

atra Coquillett. Jour. N. Y. Ent. Soc., iii, 99.

Sturmia Robineau-Desvoidy.

scutellata Robineau-Desvoidy. Bur. Ent., Bull. 91, 213.

sternalis Coquillett. Revis. Tachinid., 109.

Exorista Meigen.

Tachina of Authors.

larvarum (Linnæus). *Tachina mella* Walker; *T. utilis* Townsend. Revis. Tachinid., 119.

simulans Meigen. Zweiflug. Ins., iv, 306.

Tachinomyia Townsend.

robusta Townsend. *Tachina robusta* of Check-List. Revis. Tachinid., 119.

Gonia Meigen.

frontosa Say. *G. capitata* of authors, not DeGeer. Revis. Tachinid., 133.

sagax Townsend. *Ibid.*, 133.

Peleteria Robineau-Desvoidy.

anaxias (Walker). *P. robusta* of authors and of Check-List. Revis. Tachinid., 141.

iterans (Walker). *P. tessellatus* of authors. *Ibid.*, 141.

Fabriciella Bezzi.

dakotensis (Townsend) var. **orientalis** (Townsend). *Echinomyia florum* of authors and of Check-List. Revis. Tachinid., 144.

piceifrons (Townsend). *Echinomyodes piceifrons* Townsend. Insec. Insc. Menstr., iv, 25.

Jurinia Robineau-Desvoidy.

decisa (Walker). Revis. Tachinid., 143.

Family DEXIIDÆ.

Rhyncodexia Bigot.

confusa West. Psyche, xxxi, 185.

Paraprosena Brauer and Bergenstamm.

apicalis (Robineau-Desvoidy). Myodaires, 316. (W.M.W.)

Ateglossa Coquillett.

wheeleri West. Psyche, xxxi, 186. (W.M.W.)

Ptilodexia Brauer and Bergenstamm.

neotibialis West. Psyche, xxxi, 184. (W.M.W.)

Myiocera Robineau-Desvoidy.

novæangliæ West. Psyche, xxxi, 189.

Sardiocera Brauer and Bergenstamm.

valida (Wiedemann). *Theresia tandrec* of authors and Check-List.

Thelaira Robineau-Desvoidy.

nigripes (Fabricius). *leucozona* Panzer of Check-List.

Phyllophila Townsend.

nitens (Coquillett). *Hypostena nitens*. Revis. Tachinid., 63.

Spathidexia Townsend.

dunningi (Coquillett). *Hypostena dunningi* Coquillett. Revis. Tachinid., 60.

Dinera Robineau-Desvoidy.

futilis West. Psyche, xxxi, 191. (R.B.F.)

Family SARCOPHAGIDÆ.

Oppiopsis Townsend.

sheldoni (Coquillett). *Harbeckia tessellata* Aldrich. Sarcoph. and Allies, 47.

Metopia Meigen.

campestris (Fallen). Proc. U. S. Nat. Mus., 1926, Vol. 68, Art. 9, 52.

Euaraba Townsend.

grisea Robineau-Desvoidy. *Araba tergata* Coquillett. Revis. Tachinid., 128.

Gymnoprosopa Townsend.

filipalpus Allen. Proc. U. S. Nat. Mus., 1926, Vol. 68, Art. 9, 100.

Sarcophaga Meigen.

bisetosa (Parker). *Boltcheria bisetosa.* Sarcoph. and Allies, 81.

cingarus Aldrich. *Ibid.*, 288.

dux sarracenioides (Aldrich). *tuberosa* var. *sarracenioides* Aldrich. *Ibid.*, 227.

hunteri Hough. *Ibid.*, 102.

idonea Aldrich. *Ibid.*, 90. (R.B.F.)

Family CALLIPHORIDÆ.

Protocalliphora Hough.

splendida (Macquart) form **splendida** Macquart.

splendida form **sialis** Shannon and Dubroscky. Jour. Wash. Acad. Sci., 14, 251. (W.E.B.)

Cynomyia Robineau-Desvoidy.

mortuorum (Linnæus). Insec. Insc. Menstr. xi, 108, 110. (W.E.B.)

Calliphora Robineau-Desvoidy.

viridescens Robineau-Desvoidy. Insec. Insc. Menstr., xi, 109, 110.

Family MUSCIDÆ.

Including ANTHOMYIDAE and SCATOPHAGIDAE of Check-List.

Graphomyia Robineau-Desvoidy.

maculata Scopoli. *americana.* Myodaires, 404.

Muscina Robineau-Desvoidy.

pascuorum Meigen. Syst. Besch. 1826, v, 74, 40.

Phaonia Robineau-Desvoidy.

apicata Johannsen. Trans. Am. Ent. Soc., xlii, 396.

bysia (Walker). List Dipt., Pt. 4, 936.

cayugæ Johannsen. *nigricans.* Trans. Am. Ent. Soc., xlii, 395.

curvinervis Malloch. *Ibid.*, xlviii, 275. (R. C. Osburn)

deleta (Stein). *Ibid.*, xlviii, 258.
errans Meigen. *Ibid.*, xlviii, 257.

Hydrotæa Robineau-Desvoidy.

meteorica (Linnæus). Bull. Brook. Ent. Soc., xiii, 33.
militaris Meigen. *implexa* Loew. *Ibid.*, xiii, 32.

Fannia Robineau-Desvoidy.

fuscula Fallen. Muscides, 86.
incisurata Zetterstedt. Ins. Lapp., 679 and 683.
pusio (Wiedemann). Proc. U. S. Nat. Mus., 44, 622.

Mydæa Robineau-Desvoidy.

brevipilosa Malloch. Trans. Am. Ent. Soc., xlvi, 135. (W.E.B.)
discimana Malloch. *Ibid.*, xlvi, 136.
flavicornis Coquillett. Proc. U. S. Nat. Mus., xxi, 123.
neglecta Malloch. Trans. Am. Ent. Soc., xlvi, 136.
persimilis Malloch. *Ibid.*, xlvi, 134.

Helina Robineau-Desvoidy.

johnsoni Malloch. Trans. Am. Ent. Soc., xlvi, 141.

Lispocephala Pokorny.

erythrocera Robineau-Desvoidy. *Dexiopsis lacteipennis* Zetterstedt of Check-List. Ent. News, xxviii, 326.

Calythea Schnabl and Dziedzicki.

separata Malloch. Psyche, xxxi, 198.

Pegomyia Robineau-Desvoidy.

affinis Stein. Cornell Agr. Expt. Sta., Mem. 77, 43.
bicolor Wiedemann. *Ibid.*, Mem. 77, 43.
connexa Stein. *Ibid.*, Mem. 77, 43.
fuscofasciata Malloch. Trans. Am. Ent. Soc., xlvi, 178.
geniculata Bouché. Cornell Agr. Expt. Sta., Mem. 77, 44.
lipsia Walker. *Ibid.*, Mem. 77, 45.

Acroptena Pokorny.

ambigua (Fallen). *Hydrophoria*. Cornell Agr. Expt. Sta., Mem. 77, 15.

Hydrophoria Robineau-Desvoidy.

uniformis Malloch. Trans. Am. Ent. Soc., xliv, 297. (H.L.V.)

Hylemyia Robineau-Desvoidy.

depressa Stein. Cornell Agr. Expt. Sta., Mem. 77, 25.
inornata Stein. *Ibid.*, Mem. 77, 28.
johnsoni Stein. *Ibid.*, Mem. 77, 13. (B.H.W.)
proboscidalis Malloch. Trans. Am. Ent. Soc., xlvi, 185.
trichodactyla Rondani. Cornell Agr. Expt. Sta., Mem. 77, 35. (R.B.F.)

Prosalpia Pokorny.

sylvestris (Fallen). Cornell Agr. Expt. Sta., Mem. 77, 51.

Hylephila Rondani.

setigera Johannsen. *Hammomyia setigera.* Trans. Am. Ent. Soc., xlii, 387.
unilineata Zetterstedt. *Hammomyia.* Cornell Agr. Expt. Sta., Mem. 77, 14.

Neodexiopsis Malloch.

basalis (Stein). *Dexiopsis basalis.* Trans. Am. Ent. Soc., xlvi, 162. (H.L.V.)

Xenocœnosia Malloch.

calopyga (Loew). Cent., x, 71, 270; Trans. Am. Ent. Soc., xlvi, 162. (H.L.V.)

Cœnosia Meigen.

compressa Stein. Ent. News, xxxii, 202.
errans Malloch. *flavipes* Stein. *Ibid.*, xxxii, 204.
flavicoxa Stein. *Ibid.*, xxxii, 203, 204.
humilis Meigen. *nana* Zetterstedt.

Caricea Robineau-Desvoidy.

albicornis Meigen. Syst. Beschr., v, 220.

Hoplogaster Rondani.

nigritarsis Stein. Berl. Ent. Zeitschr., xlii, 246.

Cordilura Fallen.

gracilipes Loew. Cent., ix, 87, 216.
latifrons Loew. *Ibid.*, ix, 92, 219.
nana Loew. *Ibid.*, v, 94, 258.

Orthacheta Becker.

dissimilis Malloch. Psyche, xxxi, 194.

Hydromyza Fallen.

confluens Loew. Cent., iii, 50, 129.

Family HELOMYZIDÆ.

Suillia Robineau-Desvoidy.

Helomyza Fallen.

plumata Loew. Cent., ii, 88, 97.

quinquepunctata Say. *latericia* Loew. *Ibid.*, 89, 97.

Morpholeria Garrett.

tristis (Loew). Cent., ii, 84, 95. (H.L.J.)

Family BORBORIDÆ.

Leptocera Olivier.

carinata Spuler. Jour. N. Y. Ent. Soc., xxxiii, 75.

erruginata Stenhammar. Coprom. Scand., 1855, 397 (139), 22. (H.L.V.)

fontinalis (Fallen). Ann. Ent. Soc. Am., xvii, 114; Trans. Am. Ent. Soc., xl, 11.

Borborus Meigen.

marmoratus Becker. *breviseta* Malloch. *minutus* Johnson. Ann. Ent. Soc. Am., vi, 449.

Family SCIOMYZIDÆ.

Pteromicra Lioy.

albicalceata (Cresson). *Dichrochira.* Trans. Am. Ent. Soc., xlvi, 39.

Pherbellia Robineau-Desvoidy.

vitalis (Cresson). *Melina annulipes* var. *vitalis.* Trans. Am. Ent. Soc., xlvi, 43. (R.B.F.)

Dictyomyia Cresson.

ambigua (Loew). Trans. Am. Ent. Soc., xlvi, 82.

Euthycera Latreille.

arcuata (Loew) var. **uniformis** Cresson. *Telanocera flavescens* Loew. Trans. Am. Ent. Soc., xlvi, 74.

Limnia Robineau-Desvoidy.

boscii Robineau-Desvoidy. *Tetanocera combinata* Loew. Ann. Ent. Soc. Am., xiii, 323.

boscii var. **sparsa** (Loew). *Tetanocera sparsa* Loew. Trans. Am. Ent. Soc., xlvi, 77.

Tetanocera Dumeril.

elata (Fabricius). Ann. Ent. Soc. Am., xiii, 328.

rotundicornis Loew. Trans. Am. Ent. Soc., xlvi, 60, 61.

triangularis Loew. *Ibid.*, xlvi, 60, 63.

vicina Macquart. Ann. Ent. Soc. Am., xiii, 327.

Family SAPROMYZIDÆ.

Lonchæa Fallen.

corticis Taylor.

Minettia Macquart.

americana Malloch. *longipennis* of authors, not Fabr. Proc. Wash. Ent. Soc., 25, 53.

Sapromyza Fallen.

brachysoma Coquillett. Can. Ent., xxx, 278.

umbrosa Loew. Cent., iii, 57, 132.

Sapromyzosoma Malloch.

bispina (Loew). Cent., i, 79, 42.

imitatrix (Malloch). Can. Ent., lii, 128.

Family ORTALIDÆ.

Rivellia Robineau-Desvoidy.

boscii Robineau-Desvoidy. Myodaires, 730. (H.L.J.)

cognata Cresson. Trans. Am. Ent. Soc., 1, 228.

metallica Van der Wulp. *Ibid.*, 1, 229. (W.E.B.)

Pseudotephritis Johnson.

vau (Say). Mon. N. A. Dipt., iii, 138.

Stenomyia Loew.

nasoni Cresson. Ent. News, xxiv, 320.

Family TRYPETIDÆ.

Straussia Robineau-Desvoidy.

longipennis (Wiedemann) form **confluens** Loew. Jour. N. Y. Ent. Soc., xxxi, 126.

longipennis form **cornigera** Walker. *longitudinalis*. *Ibid.*, xxxi, 126.

longipennis form **trimaculata** Macquart. *typica* Loew. *Ibid.*, xxxi, 126.

Rhagoletis Loew.

suavis Loew. Trans. Am. Ent. Soc., lv, 411.

Euaresta Loew.

æqualis (Loew). Jour. N. Y. Ent. Soc., xxxi, 146.

Trypanea Schrank.

dacetoptera (Phillips). Jour. N. Y. Ent. Soc., xxxi, 148.

Family MICROPEZIDÆ.

Calobata Meigen.

pallipes Say. Compl. Writ., ii, 84.

Family SEPSIDÆ.

Themira Robineau-Desvoidy.

putris (Linnæus). Wash. Agr. Expt. Sta., Bull. 143, 43.

Saltella Robineau-Desvoidy.

scutellaris (Fallen). *Pandora*. Wash. Agr. Expt. Sta., Bull. 143, 49.

scutellaris var. **nigerrima** Rondani. *Ibid.*, Bull. 143, 51. (H.W.F.)

Family PIOPHILIDÆ.

Prochyliza Walker.

xanthostoma Walker. Wash. Agr. Expt. Sta., Bull. 143, 56.

Family PSILIDÆ.

Loxocera Meigen.

collaris Loew. Psyche, xxvii, 92.

Psila Meigen.

lateralis Loew. Psyche, xxvii, 94.

rosæ Fabricius. Carrot rust fly. *Ibid.*, xxvii, 95.

sternalis Loew. *Ibid.*, xxvii, 94.

Family NOTIPHILIDÆ.

Discocerina Macquart.

parva Loew. Univ. Calif., Tech. Bull. i, 178.

Allotrichoma Becker.

trispinum Becker. Berl. Ent. Zeit. 1896, Bd. 41, ii, 124.

Hydrellia Robineau-Desvoidy.

scapularis Loew. Univ. Calif., Tech. Bull. i, 185.
valida Loew. *Ibid.*, Tech. Bull. i, 185.

Notiphila Fallen.

riparia Meigen. Trans. Am. Ent. Soc., xliii, 32.
vittata Loew. *Ibid.*, xliii, 42.

Philygria Stenhammar.

fuscicornis Loew. Univ. Calif., Tech. Bull. i, 187.

Family EPHYDRIDÆ.

Dimecœnia Cresson.

spinosa (Loew). Cent., v, 100, 261.

Family CHLOROPIDÆ.

Chlorops Meigen.

brunnipennis Becker. Ann. Mus. Nat. Hung., x, 58. (M.P.Z.)
certima Adams. Ent. News, xv, 304. (B.H.W.)
proxima Say. Compl. Writ., ii, 370.

Ectocephala Macquart.

similis Becker. Ann. Mus. Nat. Hung., x, 72.

Pseudogaurax Malloch.

anchora (Loew). Cent., vi, 94, 111.

Gaurax Loew.

dorsalis Loew. *Oscinis dorsalis.* Cent., iii, 72, 140.
montanus Coquillett. Jour. N. Y. Ent. Soc., vi, 48.
nigriceps Loew. *Crassiseta nigriceps.* Cent., iii, 63, 135.

Botanobia Lioy.

Oscinis of Authors.

dorsata (Loew). Cent., viii, 77, 157.

frit (Linnæus). Aldrich Jour. Agr. Research, 18, 9, 451.
frit var. **pusilla** Meigen. *O. carbonaria* Loew. Syst. Beschr., vi, 157.
infesta (Becker). Ann. Mus. Nat. Hung., x, 109. (H.L.V.)
melancholia (Becker). *Ibid.*, x, 109.
nitidissima (Meigen). Syst. Beschr., vii, 388.
umbrosa (Loew). Cent., iii, 73, 141. (H.L.V.)

Family DROSOPHILIDÆ.

Clastopteromyia Malloch.

inversa (Walker). *Drosophila inversa.* Trans. Ent. Soc. N. ser. v, 331. (P.G.)

Drosophila Fallen.

transversus Fallen. Dipt. Suec. Geomyz., 1823, 6, 5.

Curtonotum Macquart.

helvum (Loew). *Diplocentra helva.* Cent., ii, 91, 98.

Family GEOMYZIDÆ.

Pelomyia Williston.

mallochi Sturtevant. Amer. Mus. Novitates, 1923, 76, 7.

Family MILICHIIDÆ.

Desmometopa Loew.

sordidum (Fallen). Dipt. Suec. Oscinid., 1820, 10, 5.

Mallochiella Melander.

glabra (Fallen). Dipt. Suec. Oscinid., 1820, 9, 3.

Family OCHTHIPHILIDÆ.

Ochthiphila Fallen.

maritima Zetterstedt. Jour. N. Y. Ent. Soc., xxi, 233.

Family AGROMYZIDÆ.

Agromyza Fallen.

artemisiæ Kaltenbach. *platyptera* Thomson. Ann. Ent. Soc. Am., vi, 293.
clara Melander. Jour. N. Y. Ent. Soc., xxi, 265.

maculosa Malloch. Ann. Ent. Soc. Am., vi, 302.

morosa Meigen. *magnicornis* Loew. *laterella* Zetterstedt. *Ibid.*, vi, 300.

pacifica Melander. *longipennis* Malloch. *Ibid.*, vi, 296.

Phytomyza Fallen.

albiceps Meigen. *bipunctata* Loew. Jour. N. Y. Ent. Soc., xxi, 271.

bicolor Coquillett. *abdominalis* Zetterstedt. *Ibid.*, xxi, 269.

ilicis Curtis. N. Y. (Cornell) Agr. Expt. Sta., Mem. 78, 76.

Order COLEOPTERA.

Beetles

Family CICINDELIDÆ.

Cicindela Linnæus.

marginata Fabricius. Trans. Am. Ent. Soc., xxviii, 162. (K.F.C.)

Family CARABIDÆ.

Calosoma Weber.

macrum LeConte. Trans. Am. Phil. Soc., x, 400. (In southern spinach).

Elaphrus Fabricius.

olivaceous LeConte. Trans. Am. Ent. Soc., v, 246. (K.F.C.)

Sphæroderus Dejean.

Cychrus Fabricius.

canadensis Chaudiere. Coleop. Ind., 43.

Bembidion Latreille.

affine Say. Coleop. Ind., 78. (M.P.Z.)

carinula Chaudoir. Trans. Am. Ent. Soc., xxxvi, 95. (K.F.C.)

cautum (LeConte). Am. Lyc. Nat. Hist. N. Y., iv, 464. (M.P.Z.)

confusum Hayward. Coleop. Ind., 70.

frontale LeConte. Ann. Lyc. Nat. Hist. N. Y., 462. (A.B.C.)

planum Haldeman. (*B. guexi* Chaudoir in Check-List). Coleop. Ind., 73.

semicinctum Notman. Bull. Brook. Ent. Soc., xiv, 129. (K.F.C.)

tetracolum Say. Trans. Am. Phil. Soc., ii, 89.

Tachyura Motschulsky.

frontalis Hayward. Trans. Am. Ent. Soc., xxvi, 212.

saturata Casey. Mem. Coleop., viii, 187. (M.P.Z.)

vivax (LeConte). *Tachys vivax.* Coleop. Ind., 83. (M.P.Z.)

Tachys Stephens.

cuneatus Casey. Mem. Coleop., viii, 195. (A.B.C.)

Monoferonia Casey.

mancus (LeConte). (*Pterostichus* in Check-List). Jour. Acad. Nat. Sci., ii, 234.

osculans Casey. Mem. Coleop., viii, 363.

Pœcilus Bonelli.

chalcites Say. Trans. Am. Phil. Soc., ii, 56, 1825.

Lophoglossus LeConte.

tartaricus Say. Coleop. Ind., 97. (A.B.C.)

Bothriopterus Chaudoir.

adstrictus Eschscholtz. Mem. Soc. Imp. Nat. Moscow, vi, 103, 1823.

Celia Zimmerman.

laxicollis Casey. Mem. Coleop., viii, 258. (K.F.C.)

Amara Bonelli.

humilis Casey. Mem. Coleop., viii, 302. (K.F.C.)

Triæna LeConte.

pallipes Kirby. *Amara pallipes*. Coleop. Ind., 105. (K.F.C.)

sp.

Platynus Bonelli.

obscurus Herbst. *pusillus* LeConte. Coleop. Ind., 127. (K.F.C.)

Europhilus Chaudoir.

antiquus Notman. Bull. Brook. Ent. Soc., xvii, 102.

Atranus LeConte.

pubescens Dejean. Coleop. Ind., 137.

Leptotrachelus Latreille.

dorsalis Fabricius. Coleop. Ind., 138. (B.H.W.)

Lebia Latreille.

tricolor Say. Coleop. Ind., 144. (W.E.B.)

Calleida Dejean.

purpurea (Say). *Callida purpurea* Say. Coleop. Ind., 151.

punctata LeConte. *Ibid.*, 151. (M.P.Z.)

Cymindis Latreille.

cribricollis Dejean. Trans. Am. Ent. Soc., x, 151.

Brachynus Weber.

deyrollii LaFerté. Coleop. Ind., 159.

Chlænius Bonelli.

niger Randall. Coleop. Ind., 168. (K.F.C.)

Harpalus Latreille.

rufimanus LeConte. Coleop. Ind., 185.

Selenophorus Dejean.

troglodytes Dejean. Mem. Coleop., v, 149. (A.B.C.)

Anisodactylus Dejean.

cœnus Say. Coleop. Ind., 199.

Anisotarsus Chaudoir.

sayi Blatchley. *Anisodactylus*. Coleop. Ind., 198.

Episcopellus Casey.

autumnalis (Say). (*Harpalus autumnalis* in Check-List). Coleop. Ind., 185.

Stenocellus Casey.

tantillus (Dejean). *Bradycellus*. Coleop. Ind., 191. (K.F.C.)

Acupalpus Latreille.

expertus Casey. Mem. Coleop., v, 267. (A.B.C.)

nanellus Casey. *Ibid.*, 268. (A.B.C.)

Stenolophus Dejean.

fuscatus Dejean. *Stenolophus plebejus* Dej. var. *fuscatus*. Coleop. Ind., 189.

Family HALIPLIDÆ.

Haliplus Latreille.

blanchardi Roberts. Jour. N. Y. Ent. Soc., xxi, 108. (K.F.C.)

Family DYTISCIDÆ.

Deronectes Sharp.

depressus (Fabricius). Coleop. Ind., 216. (K.F.C.)

griseostriatus DeGeer. *Ibid.*, 216. (K.F.C.)

Hydroporus Clairville.

brevicornus Fall. Jour. N. Y. Ent. Soc., xxv, 180. (K.F.C.)

carolinus Fall. *Ibid.*, xxv, 180. (K.F.C.)
consimilis LeConte. Coleop. Ind., 219. (K.F.C.)
clypealis Sharp. N.A. Hydroporus, Fall, 40. (K.F.C.)
lobatus Sharp. *Ibid.*, 29. (K.F.C.)
mellitus LeConte. Trans. Am. Ent. Soc., iv, 390. (K.F.C.)
oppositus Say. *integer* Sharp. N.A. Hydroporus, Fall, 20. (K.F.C.)
spurius LeConte. Proc. Acad. Nat. Sci., 1855, 296. (K.F.C.)
venustus LeConte. N.A. Hydroporus, Fall, 46.

Agabus Leach.

arcticus (Paykull). N.A. Agabus, Fall, 30.
discolor (Harris). *Ibid.*, 26. (M.P.Z.)
sp.

Family GYRINIDÆ.

Gyrinus Linnæus.

affinis Aubé. Coleop. Ind., 240. (K.F.C.)
aquiris LeConte. *Ibid.*, 239. (K.F.C.)
confinis LeConte. Trans. Am. Ent. Soc., xlvii, 287. (K.F.C.)
dichrous LeConte. Coleop. Ind., 239. (K.F.C.)
fraternus (Couper). *Ibid.*, 239. (K.F.C.)
frosti Fall. Trans. Am. Ent. Soc., xlvii, 303. (K.F.C.)
latilimbus Fall. *Ibid.*, xlvii, 285. (K.F.C.)
lecontei Fall. *Ibid.*, xlvii, 291. (K.F.C.)
marginellus Fall. *Ibid.*, xlvii, 283. (K.F.C.)
pernitidus LeConte. *Ibid.*, xlvii, 297. (K.F.C.)

Dineutes MacLeay.

americanus Say. (*D. assimilis* in Check-List). Coleop. Ind., 242.

Family HYDROPHILIDÆ.

Ochthebius Leach.

nitidus LeConte. Coleop. Ind., 253. (M.P.Z.)
tuberculatus LeConte. *foveicollis* LeConte. *Ibid.*, 253. (K.F.C.)

Helophorus Fabricius.

lacustris LeConte. Coleop. Ind., 250. (K.F.C.)
lecontei Knisch. *obscurus*. Can. Ent., xxvii, 183. (K.F.C.)

Hydrochus Leach.

excavatus LeConte. Coleop. Ind., 252. (K.F.C.)
squamifer LeConte. *Ibid.*, 252. (M.P.Z.)
sp.

Hydrobius Leach.

tesselatus Ziegler. Coleop. Ind., 263. (K.F.C.)

Anacæna Thomas.

geolulus Paykull. A species from Ireland found in nursery stock.

Enochrus Thomson.

Philhydrus Solier.

consors (LeConte). Smithson. Misc. Coll., vi, 24. (K.F.C.)

Cymbiodyta Bedel.

blanchardi Horn. Coleop. Ind., 262. (K.F.C.)

Helocombus Horn.

bifidus LeConte. Coleop. Ind., 262.

Cercyon Leach.

fulvipennis Mannerheim. Trans. Am. Ent. Soc., xvii, 296.
maculatus Melsheimer. (*analis* and *indistinctus* in Check-List). Psyche, xxxi, 253.
opacellus Fall. *Ibid.*, xxxi, 249.
quisquilius (Linnæus). Trans. Am. Ent. Soc., xvi, 294.
unipunctatus Linnæus. (*unpunctatus* L. in Check-List). Coleop. Ind., 268.

Oösternum Sharp.

pubescens LeConte. *Cercyon*. Coleop. Ind., 267.

Family SILPHIDÆ.

Choleva Latreille.

horniana Blanchard. Ent. News, xxvi, 294. (K.F.C.)
simplex Say. Coleop. Ind., 279. (M.P.Z.)

Ptomaphagus Illiger.

oblitus LeConte. Coleop. Ind., 281. (M.P.Z.)

Leiodes Latreille.

basalis LeConte. Coleop. Ind., 287. (K.F.C.)

geminata Horn. *Ibid.*, 287. (K.F.C.)
obsoleta Horn. *Ibid.*, 287. (K.F.C.)
polita LeConte. *Ibid.*, 287. (K.F.C.)

Family SCYDMÆNIDÆ.

Euconnus Thomson.

fatuus LeConte. Coleop. Ind., 295.

Connophron Casey.

calcaratum Casey. Ann. N. Y. Acad. Sci., ix, 450.
clavatum LeConte. Coleop. Ind., 300.
formale Casey. *Ibid.*, 298.

Family ORTHOPERIDÆ (CORYLOPHIDÆ).

Orthoperus Stephens.

suturalis LeConte. *scutellaris* LeConte. Coleop. Ind., 506. (K.F.C.)

Family STAPHYLINIDÆ.

Anthobium Stephens.

horni Fauvel. Coleop. Ind., 481. (K.F.C.)

Geodromicus Redtenbacher.

brunneus Say. Coleop. Ind., 475.

Trogophlœus Mannerheim.

sp. (M.P.Z.)

Oxytelus Gravenhorst.

exiguus Erichson. Coleop. Ind., 469.

Stenus Latreille.

canadensis Casey. Stenini of N. A., Phila., 175, 1884.
colon Say. Coleop. Ind., 403. (K.F.C.)
erythropus Melsheimer. *Ibid.*, 406. (K.F.C.)
juno (Fabricius). *Ibid.*, 404. (M.P.Z.)
placidus Casey. Stenini of N. A., Phila., 65, 1884.
strangulatus Casey. Coleop. Ind., 406. (K.F.C.)

Dianous Samouelle.

cœrulescens Gyllenhal. Coleop. Ind., 401.

Gastrolobium Casey.

badium Gravenhorst. Coleop. Ind., 418.

Hesperobium Casey.

cinctum (Say). Coleop. Ind., 419. (K.F.C.)

cribratum (LeConte). *Ibid.*, 420.

flavicorne LeConte. Trans. Am. Phil. Soc., xvii, 392.

Lathrobium Gravenhorst.

armatum Say. Coleop. Ind., 424.

Litolathra Casey.

suspecta Casey. Trans. Acad. Sci. St. Louis, xv, 97.

Tetartopeus Czwalina.

angularis (LeConte). *Lathrobium angulare* LeConte. Coleop. Ind., 426. (A.B.C.)

punctulatus (LeConte). *Lathrobium punctulatum* LeConte. *Ibid.*, 425.

Pseudolathra Casey.

analis LeConte. *Lathrobium anale.* Coleop. Ind., 426.

Lathrobiella Casey.

collaris (Erichson). *Lathrobium collare* Erichson. Coleop. Ind., 429. (M.P.Z.)

Aderocharis Sharp.

corticinus Gravenhorst. Coleop. Ind., 430. (W.E.B.)

Stilicus Latreille.

angularis Erichson. Coleop. Ind., 435.

Astenus Stephens.

Sunius Erichson.

binotatus (Say). Coleop. Ind., 439. (K.F.C.)

longiusculus Mannerheim. Trans. Am. Ent. Soc., viii, 180.

Gauropterus Thomson.

fulgidus Fabricius. Trans. Am. Ent. Soc., viii, 172.

Stictolinus Casey.

scolopaceus Casey. Trans. Acad. Sci. St. Louis, xvi, 406, 1906. (K.F.C.)

Actobius Fauvel.

sp. (K.F.C.)

Philonthus Curtis.

lætulus (Say). Coleop. Ind., 381. (K.F.C.)
sericinus Horn. *Ibid.*, 381.
tetragonocephalus Notman. Tech. Bull. N. Y. St. Coll. For., 270, 1924.
umbratilis (Gravenhorst). Coleop. Ind., 381. (K.F.C.)
varians Paykull. Trans. Am. Ent. Soc., xi, 195.
sp.

Staphylinus Linnæus.

tomentosus Gravenhorst. Coleop. Ind., 377.
viridanus Horn. *Ibid.*, 378.

Quedius Stephens.

capucinus (Gravenhorst). Coleop. Ind., 371. (M.P.Z., K.F.C.)
erythrogaster Mannerheim. Mem. Coleop., vi, 410. (K.F.C.)
lævigatus (Gyllenhal). Coleop. Ind., 372. (M.P.Z.)
mesomelinus (Marsham). Mem. Coleop., vi, 411. (K.F.C.)

Oxyporus Fabricius.

stygicus Say. Coleop. Ind., 460.

Tachinus Gravenhorst.

flavipennis Dejean. Coleop. Ind., 445. (K.F.C.)
luridus Erichson. *Ibid.*, 446.
pallipes Gravenhorst. *Ibid.*, 446. (K.F.C.)
repandus Horn. *Ibid.*, 445. (B.H.W.)

Tachyporus Gravenhorst.

chrysomelinus var. **maculicollis** LeConte. (*maculipennis* in Check-List). Coleop. Ind., 447. (M.P.Z.)
nitidulus Fabricius. *brunneus* Fabricius. *Ibid.*, 448. (M.P.Z., K.F.C.)

Conosoma Kraatz.

scriptus Horn. Coleop. Ind., 452.

Bryoporus Kraatz.

testaceus LeConte. Coleop. Ind., 457.

Deinopsis Matthews.

americana Kraatz. Coleop. Ind., 337.

Gymnusa Gravenhorst.

brevicollis (Paykull). Fauna Suecica, Upsala iii, 398, 1800.

Gyrophæna Mannerheim.

flavicornis Melsheimer. Proc. Acad. Nat. Sci. Phila., ii, 31. (K.F.C.)

Myrmedonia Erichson.

lauta Casey. Ann. N. Y. Acad. Sci., 327, 1893.

Atheta Thomson.

virginica Bernhauer. Coleop. Ind., 356.

Acrotona Thomson.

fungi (Gravenhorst). Mon. Coleop. Micropterorum Gottingen, 157, 1806. (K.F.C.)

modesta (Melsheimer). Proc. Acad. Nat. Sci. Phila., ii, 31. (K.F.C.)

Cardiola Rey.

obscura Gravenhorst. Coleop. Microptera Brunsvicensia, 74, 1802. (M.P.Z.)

Aleodorus Say.

bilobatus Say. Compl. Writ., ii, 589. (K.F.C.)

Aleochara Gravenhorst.

sculptiventris Casey. Coleop. Ind., 365.

thoracica Casey. *Baryodma thoracica.* Ann. N. Y. Acad. Sci., vii, 286. (K.F.C.)

Emplenota Casey.

maritima Casey. Notes on Coleoptera Contributions, i, Phila., 18, 1884. (K.F.C.)

Crataræa Thomson.

sp.

Family PSELAPHIDÆ.

Rybaxis Saulcy.

clavata (Brendel). *brendeli* LeConte. Coleop. Ind., 317. (B.H.W.)

conjuncta LeConte. *Ibid.*, 317. (K.F.C.)

Decarthron Brendel.

exsectum Brendel. Coleop. Ind., 317.

Pilopius Casey.

piceus (LeConte). Ann. N. Y. Acad. Sci., ix, 619. (B.H.W.)

Cedius LeConte.

ziegleri LeConte. Coleop. Ind., 312. (K.F.C.)

Family PTILIIDÆ.

Acratrichis Motschulsky.

Trichopteryx Kirby.

sp.

Family SPHÆRIDÆ.

Sphærius Waltl.

scutellaris LeConte. *Orthoperus*. Coleop. Ind., 506.

Family SCAPHIDIIDÆ.

Scaphidium Olivier.

quadriguttatum Say var. **obliteratum** LeConte. Coleop. Ind., 492. (K.F.C.)

Bæocera Erichson.

deflexa Casey. Coleop. Ind., 494. (K.F.C.)

Toxidium LeConte.

compressum Zimmerman. Coleop. Ind., 495.

Family HISTERIDÆ.

Hololepta Paykull.

lucida LeConte. Coleop. Ind., 600. (K.F.C.)

Hister Linnæus.

americana var. **exaratus** LeConte. Coleop. Ind., 610.

harrisi Kirby. *Ibid*., 605.

marginicollis LeConte. *Ibid*., 606.

memnonius Say. (*merdarius* in Check-List). Jour. Acad. Nat. Sci. Phila., v, 32, 1825.

Platysoma Leach.

coarctatum LeConte. (*coarlatus* in Check-List). Coleop. Ind., 613.

depressum LeConte. *lecontei* Marseul. *Hister lecontei* Latreille in Check-List. *Ibid.*, 612.
parallelum Say. Jour. Acad. Nat. Sci. Phila., v, 42, 1825.

Cylistix Marseul.

cylindrica (Paykull). Monogr. Histeroidum Upsala, 91, 1811. (M.P.Z.)

Phelister Marseul.

vernus Say. Coleop. Ind., 611.

Paromalus Erichson.

æqualis Say. Coleop. Ind., 616. (M.P.Z.)
geminatus LeConte. *Ibid.*, 616.

Family LAMPYRIDÆ.

Plateros Bourgeois.

floralis Melsheimer. Coleop. Ind., 815. (M.P.Z.)

Pyractomena LeConte.

ecostata LeConte. Trans. Am. Phil. Soc., xvii, 406.

Photinus Lacordaire.

ardens LeConte. Coleop. Ind., 822. (K.F.C.)
marginellus LeConte. Trans. Am. Ent. Soc., ix, 35.

Family PHENGODIDÆ.

Phengodes Illiger.

laticollis LeConte. Trans. Am. Ent. Soc., ix, 39.
plumosa (Olivier). Coleop. Ind., 824. (K.F.C.)

Family CANTHARIDÆ (TELEPHORIDÆ).

Chauliognathus Hentz.

marginatus Fabricius. Coleop. Ind., 827.

Cantharis Linnæus.

Telephorus Schæffer.

imbecillus LeConte. Pan-Pacific Ent., xii, 181.
mollis Fall. *Ibid.*, xii, 182.
neglectus Fall. Can. Ent., li, 215. (K.F.C.)
rectus Melsheimer. Coleop. Ind., 834.

Malthodes Kiesenwetter.

exilis Melsheimer. Coleop. Ind., 839.

Family MELYRIDÆ (MALACHIDÆ).

Anthocomus Erichson.

flavilabris (Say). Coleop. Ind., 842. (M.P.Z.)

Family CLERIDÆ.

Isohydnocera Chapin.

curtipennis (Newman). Mag. Nat. Hist. (2) iv, 364, 1840. (M.P.Z., K.F.C.)

tabida LeConte. (*Hydnocera tabida* in Check-List). Coleop. Ind., 857.

Thaneroclerus Spinola.

girodi Chevrolat. A Porto Rican species.

Family CUPESIDÆ.

Cupes Fabricius.

concolor Westwood. Coleop. Ind., 893. (W.E.B., K.F.C.)

Family MORDELLIDÆ.

Tomoxia Costa.

inclusa LeConte. Trans. Am. Ent. Soc., x, 79.

Mordella Linnæus.

lunulata Hellmuth. Coleop. Ind., 1313. (K.F.C.)
octopunctata Fabricius. *Ibid.*, 1313.
serval Say. *Ibid.*, 1314. (M.P.Z.)

Mordellistena Costa.

ambusta LeConte. Coleop. Ind., 1323. (K.F.C.)
bihamata (Melsheimer). *Ibid.*, 1325. (B.H.W.)
biplagiata Hellmuth. *Ibid.*, 1319. (K.F.C.)
convicta LeConte. *Ibid.*, 1323. (B.H.W.)
decorella LeConte. *Ibid.*, 1318. (K.F.C.)
fuscata Melsheimer. *Ibid.*, 1325.
grammica LeConte. *Ibid.*, 1321.
impatiens LeConte. Trans. Am. Ent. Soc., x, 87. (M.P.Z.)

lepidula LeConte. Coleop. Ind., 1318.
limbalis (Melsheimer). *Ibid.*, 1318. (M.P.Z.)
nigricans (Melsheimer). *Ibid.*, 1321. (M.P.Z.)
ornata (Melsheimer). *Ibid.*, 1319. (B.H.W.)
pustulata (Melsheimer). *Ibid.*, 1322. (K.F.C.)
trifasciata (Say). *Ibid.*, 1318. (M.P.Z.)

Family RHIPIPHORIDÆ.

Rhipiphorus Bosc d'Antic.

luteipennis LeConte. *Myodites*. Trans. Am. Ent. Soc., viii, 210. (B.A.P.)
stylopides (Newman). *Myodites*. *Ibid.*, viii, 210. (G.D.)
walshi LeConte. *Ibid.*, viii, 210.

Family MELOIDÆ.

Macrobasis LeConte.

torsa LeConte. Coleop. Ind., 1358.

Meloe Linnæus.

americanus Leach. Coleop. Ind., 1352.
niger Kirby. *Ibid.*, 1352. (K.F.C.)

Family ANTHICIDÆ.

Anthicus Paykull.

floralis (Linnæus). (*Hemantus floralis* in Check-List). Coleop. Ind., 1339. (G.D.)
pubescens LaFerté. (*Sapintus pubescens* LeConte in Check-List). *Ibid.*, 1343.
saucius Casey. *Ibid.*, 1342. (K.F.C.)
sturmi LaFertè. *Ibid.*, 1339. (In Check-List as *Lappus sturni*).
thomasi Pictet. *soldalis* Casey. Ann. N. Y. Acad. Sci., viii, 712.
sp.

Family EUGLENIDÆ.

Zonantes Casey.

fasciatus Melsheimer. Coleop. Ind., 1345. (K.F.C.)

Family ELATERIDÆ.

Adelocera Latreille.

brevicornis LeConte. Coleop. Ind., 714.

Limonius Eschscholtz.

aurifer LeConte. Coleop. Ind., 757. (K.F.C.)

Athous Eschscholtz.

rufifrons Randall. Coleop. Ind., 761. (K.F.C.)
scapularis (Say). *Ibid.*, 760. (K.F.C.)

Ludius Eschscholtz.

Corymbites Latreille.

hamatus (Say). *Corymbites*. Coleop. Ind., 768. (W.E.B.)
propola LeConte. Trans. Am. Phil. Soc., 437, 1853.
vernalis Hentz. Coleop. Ind., 764.

Cryptohypnus Eschscholtz.

exiguus Randall. Trans. Am. Ent. Soc., xviii, 15. (K.F.C.)
obliquatulus Melsheimer. *Hypnoidus*. Coleop. Ind., 726.

Hypnoidus Stephens.

choris (Say). Coleop. Ind., 724. (K.F.C.)

Oedostethus LeConte.

femoralis LeConte. Coleop. Ind., 726. (K.F.C.)

Agriotes Eschscholtz.

fucosus LeConte. Coleop. Ind., 741.
mancus Say. *Ibid.*, 740.

Betarmon Kiesenwetter.

bigeminatus Randall. Trans. Am. Phil. Soc., x, n.s. 458.

Elater Linnæus.

obliquus Say. Trans. Am. Ent. Soc., xii, 11.
pedalis Germar. Coleop. Ind., 732.
verticinus Beauvois. Replaces *rubricollis* Herbst of Check-List. Coleop. Ind., 733.

Melanotus Eschscholtz.

castanipes Paykull. Coleop. Ind., 746.
depressus Melsheimer. *Ibid.*, 755.

hyslopi Van Zwaluwenburg. Proc. Wash. Ent. Soc., 23, 210. (F.W.Haasis)

tænicollis (LeConte). Trans. Am. Phil. Soc., Ser. 2, x, 475. (B.H.W.)

sp. near *sagittarius* LeConte.

Family MELASIDÆ.

Fornax Castelnau.

orchesides (Newman). Coleop. Ind., 706. (M.P.Z.)

Microrhagus Eschscholtz.

triangularis Say. Coleop. Ind., 709. (K.F.C.)

Family THROSCIDÆ.

Drapetes Dejean.

geminatus Say. Coleop. Ind., 774. (M.P.Z.)

Aulonothroscus Horn.

constrictor Say. Coleop. Ind., 776. (M.P.Z.)

Family BUPRESTIDÆ.

Chalcophora Solier.

lacustris LeConte. Trans. Am. Phil. Soc., Ser. 2, xi, 190. (K.F.C.)

Dicerca Eschscholtz.

chrysea Melsheimer. Proc. Acad. Nat. Sci. Phila., ii, 143.

tuberculata Castelnau and Gory. *asperata* (Castelnau). Proc. U. S. Nat. Mus., 65, Art. 9, 130. (B.H.W.)

Cinyra Castelnau and Gory.

gracilipes Melsheimer. Coleop. Ind., 785.

Chrysobothris Eschscholtz.

verdigripennis Frost. Jour. N. Y. Ent. Soc., xviii, 43.

Agrilus Stephens.

anxius Gory. Bronze birch borer. Coleop. Ind., 801.

arcuatus subsp. **corylicola** Fisher. *coryli* Horn. *Ibid.*, 799. (B.H.W., M.P.Z.)

arcuatus subsp. **torquatus** LeConte. Trans. Am. Phil. Soc., xi, 243, 1859. (A.B.C.)

atricornis Fisher. U. S. Nat. Mus., Bull. 145, 86.
bilineatus Weber subsp. **carpini** Knull. *Ibid.*, Bull. 145, 119.
celti Knull. Ent. News, xxx, 8. (B.H.W.)
communis Obenberger, aberration **rubicola** de Perrin. U. S. Nat. Mus., Bull. 145, 209.
cratægi Frost. *Ibid.*, Bull. 145, 226. (M.P.Z.)
crinicornis Horn. Coleop. Ind., 798.
frosti Knull. Ent. News, xxx, 11. (B.H.W.)
imbellis Crotch. Proc. Acad. Nat. Sci. Phila., xxv, 94. (K.F.C.)
olivaceoniger Fisher. U. S. Nat. Mus., Bull. 145, 124.
quadriguttatus Gory. *Ibid.*, Bull. 145, 141.
quadriimpressa Ziegler. *Ibid.*, Bull. 145, 133.
sinuatus Olivier. Sinuate pear borer. Rept. Conn. Agr. Expt. Sta., 1920, 193.
sp. "Y" Fisher.

Family HELMIDÆ (ELMIDÆ).

Stenelmis Dufour.

sulcata Blatchley. Coleop. Ind., 681.

Helmis Latreille.

ampliatus Fall. Jour. N. Y. Ent. Soc., xxxiii, 179.
immunis Fall. *Ibid.*, xxxiii, 178.
vittata Melsheimer. Coleop. Ind., 680.

Limnius Erichson.

ovalis LeConte. Coleop. Ind., 680.

Ancyronyx Erichson.

variegatus (Germar). Coleop. Ind., 682. (K.F.C.)

Family HETEROCERIDÆ.

Heterocerus Fabricius.

brunneus Horn. Coleop. Ind., 685. (M.P.Z., A.B.C.)
collaris Kiesenwetter. *Ibid.*, 685. (M.P.Z.)
undatus Melsheimer. *Ibid.*, 684.

Family DASCYLLIDÆ.

Eucinetus Germar.

morio LeConte. Coleop. Ind., 692. (M.P.Z.)

Family HELODIDÆ.

Cyphon Paykull.

padi Linnæus. Coleop. Ind., 696.
robustus LeConte. Trans. Am. Ent. Soc., viii, 106. (M.P.Z.)

Prionocyphon Redtenbacher.

discoideus (Say). Trans. Am. Ent. Soc., viii, 100. (M.P.Z.)

Ptilodactyla Illiger.

serricollis Say. Coleop. Ind., 691.

Family DERMESTIDÆ.

Dermestes Linnæus.

cadaverinus Fabricius. N. J. Dept. Agr. Circ. 108, 21.
frischi Kugelann. Jour. N. Y. Ent. Soc., viii, 142.
peruvianus Castelnau. *angustus* Casey. *Ibid.*, viii, 143.

Cryptorhopalum Guerin-Meneville.

(*Cryptorophalum* in Check-List.)

Anthrenus Geoffroy.

castaneæ Melsheimer. Coleop. Ind., 598. (M.P.Z.)

Orphilus Erichson.

ater Erichson. Coleop. Ind., 598.

Family OSTOMIDÆ (TROGOSITIDÆ).

Tenebroides Piller and Mitterpacker.

collaris Sturm. Ostomidæ of N. J., 13.
laticollis (Horn). Coleop. Ind., 665.

Family NITIDULIDÆ.

Cateretes Herbst.

pennatus Murray. Trans. Linn. Soc. London, xxiv, 449, 1862. (K.F.C.)

Carpophilus Stephens.

corticinus Erichson. Coleop. Ind., 633.
marginatus Erichson. *Ibid.*, 631.

Nitidula Fabricius.

bipunctata (Linnæus). Coleop. Ind., 640. (K.F.C.)

Brachypterolus Grouvelle.

mordelloides Notman. *Heterostomus pulicarius.* Rept. Conn. Agr. Expt. Sta., 339, 1924. (M.P.Z.)

Epuræa Erichson.

erichsoni Reitter. Coleop. Ind., 638. (B.W.McF.)
peltoides Horn. *Ibid.*, 640.
terminalis Mannerheim. Bull. Moscou, xvi, 93, 1893.
truncatella Mannerheim. Coleop. Ind., 639. (M.P.Z.)

Prometopia Erichson.

sexmaculata (Say). Coleop. Ind., 642. (M.P.Z.)

Amphicrossus Erichson.

ciliatus (Olivier). Coleop. Ind., 646.

Pocadius Erichson.

helvolus Erichson. Trans. Am. Ent. Soc., vii, 310.

Cryptarcha Shuckard.

concinna Melsheimer. Coleop. Ind., 648. (K.F.C.)

Glischrochilus Reitter.

obtusus Say. Coleop. Ind., 649.

Family RHIZOPHAGIDÆ.

Rhizophagus Herbst.

remotus LeConte. Coleop. Ind., 650. (K.F.C.)

Family MONOTOMIDÆ.

Pycnotomina Casey.

cavicolle Horn. Trans. Am. Ent. Soc., vii, 267.

Family CUCUJIDÆ.

Oryzæphilus Ganglbauer.

mercator Fauvel. *Silvanus.* Rev. d'Ent., viii. (K.F.C.)

Cathartus Reiche.

advena (Waltl). Coleop. Ind., 563. (M.P.Z.)

Family EROTYLIDÆ.

Acropteroxys Gorham.

gracilis Newman. (*Languria gracilis* in Check-List). Coleop. Ind., 543.

gracilis var. **inornata** Rand. Trans. Am. Ent. Soc., iv, 351.

Tritoma Fabricius.

pulchra Say. *Mycotretus* Lacordaire. Trans. Am. Ent. Soc., iv, 354.

Family CRYPTOPHAGIDÆ.

Crosinus Casey.

hirtus Casey. Coleop. Ind., 575. (K.F.C.)

Cryptophagus Herbst.

acutangulus Gyllenhal. Coleop. Ind., 576. (K.F.C.)
fungicola Zimmerman. *Ibid.*, 576. (M.P.Z.)
prominens Casey. Mem. Coleop., xi, 193.
restrictus Casey. *Ibid.*, xi, 193. (Suppl. Leng's List)
saginatus Sturm. Deutschlands Fauna, xvi, 88. (K.F.C.)
sp.

Anchicera Thomson.

ochracea Zimmerman. Jour. N. Y. Ent. Soc., viii, 121. (M.P.Z.)

Atomaria Stephens.

sp.

Family MYCETOPHAGIDÆ.

Mycetophagus Hellwig.

pleuripunctatus LeConte. Coleop. Ind., 585. (K.F.C.)

Litargus Erichson.

sexpunctatus Say. Coleop. Ind., 586.

Family COLYDIIDÆ.

Aulonium Erichson.

tuberculatum LeConte. Coleop. Ind., 554.

Family LATHRIDIIDÆ.

Coninomus Thomson.

constrictus Gyllenhal. Coleop. Ind., 654.

nodifer Westwood. Trans. Am. Ent. Soc., xxvi, 121.

Cartodere Thomson.

costulata Reitter. Coleop. Ind., 656.

Melanopthalma Motschulsky.

americana Melsheimer. Coleop. Ind., 661.

Family MYCETÆIDÆ.

Rhanis LeConte.

unicolor (Ziegler). Coleop. Ind., 536. (M.P.Z.)

Family PHALACRIDÆ.

Stilbus Seidlitz.

apicalis (Melsheimer). *Eustilbus.* (*Olibrus consimilis* Marsham of Check-List). Coleop. Ind., 500. (M.P.Z.)

nitidus Melsheimer. *Eustilbus. Ibid.*, 501.

viduus Casey. Ann. N. Y. Acad. Sci., v, 126. (M.P.Z.)

Family COCCINELLIDÆ.

Hyperaspis Redtenbacher.

pratensis LeConte. Coleop. Ind., 523.

Brachyacantha Chevrolat.

felina (Fabricius) var. **decempustulata** Melsheimer. Coleop. Ind., 520.

indubitalis Crotch. Jour. N. Y. Ent. Soc., vii, 120. (W.E.B., M.P.Z.)

quadripunctata Melsheimer. Coleop. Ind., 521.

Stethorus Weise.

punctum LeConte. Coleop. Ind., 531.

Scymnus Kugelann.

agricola Casey. Jour. N. Y. Ent. Soc., vii, 145. (M.P.Z.)

flavifrons Melsheimer. *Ibid.*, vii, 155. (H.L.J.)

hæmorrhous LeConte var. *Ibid.*, vii, 140. (M.P.Z.)

liebecki Horn. Coleop. Ind., 527.
nanus LeConte. *Ibid.*, 529. (M.P.Z.)
rubricauda Casey. *Ibid.*, 529. (M.P.Z.)
semiruber Horn. Jour. N. Y. Ent. Soc., vii, 140. (M.P.Z.)
terminatus Say. *Ibid.*, vii, 158. (M.P.Z.)

Coccinella Linnæus.

sp.

Adalia Mulsant.

frigida var. **disjuncta** Randall. Coleop. Ind., 516.

Epilachna Chevrolat.

varivestis Mulsant. *corrupta.* Mexican bean beetle. Rept. Conn. Agr. Expt. Sta. 1931, 71-108.

Family ALLECULIDÆ (CISTELIDÆ).

Isomira Mulsant.

quadristriata Couper. (*quadriseriata* in Check-List). Coleop. Ind., 1277.

Mycetochara Berthold.

tenuis LeConte. Coleop. Ind., 1281.

Family TENEBRIONIDÆ.

Phellopsis LeConte.

obcordata Kirby. Can. Ent., xxxix, 45.

Ephalus LeConte.

latimanus (LeConte). Trans. Am. Phil. Soc., xiv, 360. (W.E.B.)

Rhipidandrus LeConte.

flabellicornis (Sturm). *paradoxa.* Coleop. Ind., 901. (M.P.Z.)

Scaphidema Redtenbacher.

æneolum LeConte. Coleop. Ind., 1265.

Pentaphyllus Latreille.

pallidus LeConte. Coleop. Ind., 1265. (K.F.C.)

Gnathocerus Thunberg.

cornutus Fabricius. Trans. Am. Phil. Soc., xiv, 365.

Xylopinus LeConte.

saperdioides (Olivier) var. **rufipes** Say. Coleop. Ind., 1249. (K.F.C.)

Paratenetus Spinola.

crinitus Fall. *gibbipennis* Motschulsky. Coleop. Ind., 1259. (K.F.C.)

punctatus Spinola. *Ibid.*, 1259. (K.F.C.)

Family MELANDRYIDÆ.

Pisenus Casey.

humeralis Kirby. Coleop. Ind., 1289. (K.F.C.)

Eustrophus Illiger.

tomentosus Say. *Eustrophinus* Seidlitz. Coleop. Ind., 1293. (K.F.C.)

Prothalpia LeConte.

holmbergi (Mannerheim). Bull. Moscow, xxv, 347.

Serropalpus Hellwig.

barbatus Schaller. Illus. Besttabl. Kaf. Deutsch., 727.

Mystaxus Kugelann.

simulator Newman. Coleop. Ind., 1297. (K.F.C.)

Phlœotrya Stephens.

vandoueri Mulsant. Coleop. Ind., 1298.

Microtonus LeConte.

sericans LeConte. Coleop. Ind., 1306. (M.P.Z.)

Symphora LeConte.

flavicollis (Haldeman). Coleop. Ind., 1299. (K.F.C.)

Family PTINIDÆ.

Gibbium Scopuli.

psylloides Czempinski. Coleop. Ind., 864. (E.M.S.)

Mezium Curtis.

americanum Laporte. Coleop. Ind., 864.

Ptinus Linnæus.

brunneus Duftschmid. Coleop. Ind., 866.

Family ANOBIIDÆ.

Eucrada LeConte.

humeralis Melsheimer. Coleop. Ind., 867. (M.P.Z.)

Ernobius Thomson.

filicornis LeConte. Trans. Am. Ent. Soc., xxxi, 148.

Anobium Fabricius.

punctatum DeGeer. *striatum.* Coleop. Ind., 871.

Cœlostethus LeConte.

notatus (Say). Coleop. Ind., 872. (W.E.B.)

Eupactus LeConte.

nitidus LeConte. Coleop. Ind., 878.

Ptilinus Geoffroy.

ruficornis Say. Coleop. Ind., 885. (K.F.C.)

Family BOSTRICHIDÆ.

Scobicia Lesne.

bidentata (Horn). *Sinoxylon.* Trans. Am. Phil. Soc., xvii, 544. (B.H.W.)

Rhizopertha Stephens.

dominica Fabricius. Entomologia Systematica Hafniæ 1, 1792.

Family CISIDÆ (CIOIDÆ).

Xestocis Casey.

levetti Casey. Coleop. Ind., 899.

Octotemnus Mellié.

lævis Casey. Coleop. Ind., 901. (M.P.Z.)

Family SCARABÆIDÆ.

Onthophagus Latreille.

nuchicornis (Linnæus). Jour. N. Y. Ent. Soc., xxii, 297. (K.F.C., M.P.Z.)

Aegialia Latreille.

rufescens Horn. Trans. Am. Ent. Soc., xiv, 100.

Aphodius Illiger.

erraticus (Linnæus). Trans. Am. Ent. Soc., xiv, 6. (K.F.C.)

hæmorrhoidalis Linnæus. Syst. Nat., 1, 348.

hamatus Say. Coleop. Ind., 930.

prodromus (Brahm). Trans. Am. Ent. Soc., xiv, 60. (K.F.C.)

stercorosus Melsheimer. Coleop. Ind., 929.

Oxyomus Castelnau.

silvestris Scopoli. *opacifrons* Horn. Trans. Am. Ent. Soc., iii, 284.

Pleurophorus Mulsant.

ceasus Crentz. Coleop. Ind., 923.

parvulus Chevrolat. Ann. Soc. Ent. France, 415, 1864. (K.F.C.)

Bolbocerosoma Schæffer.

farctum var. **tumefactum** (Beauvois). (*farctum* in Check-List). Coleop. Ind., 937. (K.F.C.)

Trox Fabricius.

suberosus Fabricius. Coleop. Ind., 944.

Serica MacLeay.

elusa Dawson. Jour. N. Y. Ent. Soc., xxvii, 36.

georgianna Leng. *Ibid.*, xix, 214.

intermixta Blatchley. Coleop. Ind., 957.

lecontei Dawson. Jour. N. Y. Ent. Soc., xxix, 160. (K.F.C.)

mystacea Dawson. *Ibid.*, xxx, 160. (K.F.C.)

parallela Casey. Contrib. to Coleopterology of N. A., ii, 176.

trochiformis Burmeister. var. *blatchleyi* Dawson. Jour. N. Y. Ent. Soc., xl, 545.

Autoserica Brenske.

castanea Arrow. Asiatic garden beetle. Rept. Conn. Agr. Expt. Sta., 1929, 607.

Phyllophaga Harris.

quercus (Knoch). Coleop. Ind., 980.

Anomala Samouelle.

innuba (Fabricius). Coleop. Ind., 983. (K.F.C.)

marginata Fabricius. *Ibid.*, 985.

orientalis Waterhouse. Asiatic beetle. Rept. Conn. Agr. Expt. Sta., 1923, 291. (M.P.Z., B.H.W.)

Popillia Serville.

japonica Newman. Japanese beetle. The Zoologist, London, 43, 1841. Conn. Agr. Expt. Sta., Bull. 411.

Ochrosidia Casey.

villosa Burmeister. Mem. Coleop., vi, 147.

Euphoria Burmeister.

aurata Linnæus. In box of nursery stock from Europe. Rept. Conn. Agr. Expt. Sta., 1909, Pl. xvi, c.

Family CERAMBYCIDÆ.

Tragosoma Serville.

depsarium Linnæus var. **harrisi** LeConte. Can. Ent., xxix, 83.

Anoplium Haldeman.

cinerascens LeConte. Jour. Acad. Nat. Sci., 2, 15.

Obrium Curtis.

maculatum (Olivier). *Phylon pallidum.* Coleop. Ind., 1027. (J.L.R.)

Evodinus LeConte.

monticola (Randall). *Pachyta.* Coleop. Ind., 1049. (K.F.C.)

Aemæops LeConte.

proteus Kirby. Coleop. Ind., 1049.

Parallelina Casey.

nana (Newman) var. **hæmatites** (Newman). (*Leptura haematites* in Check-List). Entomologist, 73.

Leptura Linnæus.

canadensis (Fabricius not Olivier) and *vagans* (Olivier) are now placed in the genus *Brachyleptura* Casey.

proxima Say. Coleop. Ind., 1058. (K.F.C.)

Bellamira LeConte.

scalaris Say. Coleop. Ind., 1051.

Callimoxys Kraatz.

fuscipennis LeConte. *sanguinicollis.* Coleop. Ind., 1029.

Physocnemum Haldeman.

brevilinum Say. Coleop. Ind., 1017.

Hylotrupes Serville.

bajalus Linnæus. Coleop. Ind., 1019.

Callidium Fabricius.

violaceum (Linnæus). (*janthimum* LeConte in Check-List). Coleop. Ind., 1019.

Xylotrechus Chevrolat.

annosus (Say). Ent. Amer., ii, 199. (K.F.C.)

Clytoleptus Casey.

Clytanthus Thomson.

albofasciatus Laporte. Coleop. Ind., 1039.

Atimia Haldeman.

confusa Say. Coleop. Ind., 1042.

Monochamus Serville.

Monohammus of Authors.

Microgoes Casey.

oculatus (LeConte). *Goes oculata* LeConte. Coleop. Ind., 1068. (K.F.C.)

Psapharochrus Thomson.

quadrigibbus (Say). *Acanthoderes*. Coleop. Ind., 1070. (M.P.Z.)

Leptostylus LeConte.

aculiferus Say. Trans. Am. Ent. Soc., viii, 121.

guttata (Say) of Check-List now belongs in genus *Astylopsis* Casey.

Leiopus Serville.

fascicularis (Harris). Coleop. Ind., 1074. (B.H.W.)

Ecyrus LeConte.

(*Encyrus* in Check-List).

Hippopsis Serville.

lemniscata Fabricius. Coleop. Ind., 1083.

Oberea Mulsant.

bimaculata var. **affinis** Harris. Insects of Mass., 91. (B.H.W.)

bimaculata (Olivier) var. **tripunctata** Fabricius. Trans. Am. Ent. Soc., vii, 46. (K.F.C.)

oculata Linnæus. Probably came on nursery stock from Europe.

tripunctata Swederus var. **myops** Haldeman. Trans. Am. Ent. Soc., vii, 47.

Family CHRYSOMELIDÆ.

Donacia Fabricius.

æqualis Say. Coleop. Ind., 1104. (M.P.Z.)

distincta LeConte. *Ibid.*, 1104.

emarginata var. **frosti** Schæffer. Brooklyn Mus. Sci., Bull. iii, 3, 136.

parvidens Schæffer. *Ibid.*, Bull. iii, 45-165.

proxima Kirby. Coleop. Ind., 1102.

pusilla Say. *Ibid.*, 1106.

Orsodacna Latreille.

atra Ahrens. Coleop. Ind., 1108. (M.P.Z.)

atra var. **tibialis** Kirby. *Ibid.*, 1108.

atra var. **trivittata** Lacordaire. *Ibid.*, 1108.

Zeugophora Kunze.

puberula Crotch. Coleop. Ind., 1109. (M.P.Z.)

varians Crotch. *Ibid.*, 1110. (M.P.Z.)

Pachybrachys Chevrolat.

femoratus (Olivier) var. **aquilonis** Fall. Trans. Am. Ent. Soc., xli, 375. (K.F.C.)

litigiosus Suffrian. Coleop. Ind., 1127.

obsoletus Suffrian. Trans. Am. Ent. Soc., xli, 440. (K.F.C.)

Cryptocephalus Geoffroy.

guttulatus Olivier. Coleop. Ind., 1122.

(*ornatus* Fabricius should be dropped from Check-List, as it is given as a variety of *venustus*).

tinctus LeConte. Coleop. Ind., 1124.

venustus Fabricius var. **simplex** Haldeman. *Ibid.*, 1123. (M.P.Z.)

Bassareus Haldeman.

detritus (Olivier). Coleop. Ind., 1118. (K.F.C.)

mammifer (Newman) var. **luteipennis** (Melsheimer). *Ibid.*, 1120. (K.F.C.)

Nodonota Lefévre.

convexa (Say). Coleop. Ind., 1148. (M.P.Z., W.E.B.)

Colaspis Fabricius.

brunnea (Fabricius) var. **costipennis** Crotch. Coleop. Ind., 1147. (K.F.C.)

favosa Say. Compl. Writ., ii, 214. (M.P.Z., W.E.B.)

Rhabdopterus Lefévre.

picipes (Olivier). Coleop. Ind., 1147. (K.F.C.)

Graphops LeConte.

curtipennis Melsheimer. Coleop. Ind., 1144.

marcassitus Crotch. *Ibid.*, 1144.

Metachroma LeConte.

lævicollis Crotch. Coleop. Ind., 1146. (M.P.Z.)

Myochrous Erichson.

denticollis Say. In strawberries from Arkansas.

Paria LeConte.

canella (Fabricius) var. **sellata** Horn. Coleop. Ind., 1140. (B.H.W.)

canella (Fabricius) var. **vittata** Horn. *Ibid.*, 1140.

(var. *notatus* Say should be dropped from Check-List).

Labidomera Chevrolat.

(*Labioderma* in Check-List, p. 276).

Plagiodera Redtenbacher.

versicolora (Laichartig). Rept. Conn. Agr. Expt. Sta. 1922, 195, Pl. xiii, b. (W.E.B., M.P.Z.)

Phædon Latreille.

viridis (Melsheimer). Coleop. Ind., 1159. (K.F.C.)

Lina Megerle.

obsoleta Say. Coleop. Ind., 1161.

Trirhabda LeConte.

tomentosa Linnæus. Coleop. Ind., 1165.

Galerucella Crotch.

alni Fall. Me. Agr. Expt. Sta., Bull. 319, 89. (K.F.C.)

notulata (Fabricius). Coleop. Ind., 1168. (K.F.C.)
perplexa Fall. Me. Agr. Expt. Sta., Bull. 319, 90.
spirææ Fall. *Ibid.*, Bull. 319, 89. (W.C.W.)

Diabrotica Chevrolat.
longicornis Say. Coleop. Ind., 1172. (K.F.C.)

Phyllobrotica Redtenbacher.
decorata Say. Coleop. Ind., 1174.
vittata Horn. *Ibid.*, 1175. (M.P.Z.)

Luperodes Motschulsky.
cyanellus LeConte. Coleop. Ind., 1176. (K.F.C.)

Agelasa Motschulsky.
alni Linnæus. On imported nursery stock from Holland.

Hypolampsis Clark.
pilosa (Illiger). Coleop. Ind., 1207. (B.H.W.)

Oedionychus Latreille.
gibbitarsus Say. Coleop. Ind., 1180. (M.P.Z.)
limbalis Melsheimer. *Ibid.*, 1184. (K.F.C.)
petaurista Fabricius. *Ibid.*, 1183.

Disonycha Chevrolat.
mellicollis (Say). Coleop. Ind., 1191. (K.F.C.)

Haltica (or *Altica*) Geoffroy.
ænescens Blatchley. Coleop. Ind., 1202.
carinata Germar. *Ibid.*, 1200. (K.F.C.)

Crepidodera Chevrolat.
erythropus Melsheimer. *rufipes* Linnæus. Coleop. Ind., 1213. (K.F.C.)

Hippuriphila Foudras.
modeeri (Linnæus). *Crepidodera modeeri.* Coleop. Ind., 1214. (M.P.Z.)

Chætocnema Stephens.
cribrata LeConte. Coleop. Ind., 1208. (M.P.Z.)
subcylindrica LeConte. *Ibid.*, 1209. (M.P.Z.)

Glyptina LeConte.

spuria LeConte. Coleop. Ind., 1194. (M.P.Z.)

Aphthona Chevrolat.

insolita Melsheimer. Coleop. Ind., 1195.

Phyllotreta Foudras.

robusta LeConte. Coleop. Ind., 1196. (M.P.Z.)

Anoplitis Chapuis.

inæqualis (Weber). *Chalepus. Odontota.* (*A. nervosa* (Panz.) in Check-List). Coleop. Ind., 1228.

Chalepus Thunberg.

walshi Crotch. *collaris* Say. Coleop. Ind.. 1226.

Microrhopala Baly.

excavata (Olivier). Coleop. Ind., 1225. (M.P.Z.)

Subfamily Cassidinae.

Physonota Boheman.

unipunctata Say. Coleop. Ind., 1229. (M.P.Z.)

Gratiana Spæth.

Cassida Linnæus.

pallidula Boheman. Coleop. Ind., 1231. (M.P.Z.)

Family MYLABRIDÆ.

Mylabris Mueller.

alboscutellatus Horn. Coleop. Ind., 1239.
longistilus Horn. *Ibid.*, 1240.
musculus Say. *Ibid.*, 1241.

Family PLATYSTOMIDÆ.

Ormiscus Waterhouse.

saltator LeConte. Rhyn. N. E. Am., 26. (K.F.C.)

Gonotropis LeConte.

gibbosus LeConte. Rhyn. N. E. Am., 30. (K.F.C.)

Tropideres Schönherr.

bimaculatus Olivier. Rhyn. N. E. Am., 31. (B.H.W.)

Family CURCULIONIDÆ.

Rhinomacer Fabricius.

elongatus LeConte. Rhyn. N. E. Am., 51.
pallipennis Blatchley. *Ibid.*, 51. (M.P.Z.)
pilosus LeConte. *Ibid.*, 50. (M.P.Z.)

Eugnamptus Schönherr.

collaris (Fabricius). Rhyn. N. E. Am., 56. (M.P.Z.)

Rhynchites Herbst.

cyanellus LeConte. Rhyn. N. E. Am., 59. (M.P.Z.)
perplexus Blatchley. *Ibid.*, 60.

Apion Herbst.

dilaticolle Fall. Bull. Brook. Ent. Soc., xx, 85.
emaciipes Fall. Rhyn. N. E. Am., 86. (B.H.W.)
melanarium Gerstaecker. *Ibid.*, 71.
pennsylvanicum Boheman. *Ibid.*, 73.
porcatum Boheman. *Ibid.*, 81. (M.P.Z.)
turbulentum Smith. *Ibid.*, 80. (M.P.Z.)
walshi Smith. *Ibid.*, 79. (M.P.Z.)
sp.

Calomycterus Roelofs.

setarius Roelofs. Conn. Agr. Expt. Sta., Bull. 349, 448.

Pseudocneorrhinus Roelofs.

setosus Roelofs. Rept. Conn. Agr. Expt. Sta. 1923, 313. Bull. 349, 434. (M.P.Z., B.H.W.)

Polydrusus Germar.

sericeus Schaller. Rhyn. N. E. Am., 130. (M.P.Z.)

Sciaphilus Schönherr.

muricatus Fabricius. Rhyn. N. E. Am., 132.

Asynonychus Champion.

godmani Crotch. *Armigus fulleri* Horn. "Fuller's rose beetle". Rhyn. N. E. Am., 124.

Brachyrhinus Latreille.

auricapillus Germar. A European species found in case of nursery stock.

Chætechus Horn.

setiger Horn. Rhyn. N. E. Am., 114. (M.P.Z.)

Sitona Germar.

cylindricollis Fahræus. Ann. Soc. Ent. Fr., 1864, 377. Apparently exotic.

lineellus Bonsdorff var. **scissifrons** Say. Ann. Soc. Ent. Fr., iv, 1864.

Phytonomus Schönherr.

comptus Say. Rhyn. N. E. Am., 148.

rumicis Linnæus. Imported species (not *maritimus* Titus). Ent. News, xxxiv, 280, 1923. (M.P.Z.)

Listronotus Jekel.

appendiculatus (Boheman). Rhyn. N. E. Am., 160. (B.H.W.)

Hyperodes Jekel.

delumbis Gyllenhal. Rhyn. N. E. Am., 172.

indistinctus Dietz. Trans. Am. Ent. Soc., xvi, 32, 1889. (R.B.F.)

porcellus Say. Rhyn. N. E. Am., 177.

sparsus (Say). *Ibid.*, 172. (M.P.Z.)

Hylobius Germar.

radicis Buchanan. Proc. Wash. Ent. Soc., 36, 252.

Dorytomus Germar.

brevicollis LeConte. Rhyn. N. E. Am., 196.

frosti Blatchley. *Ibid.*, 195. (C.A.Frost)

mucidus Say. *Ibid.*, 194.

Notaris Germar.

puncticollis LeConte. Rhyn. N. E. Am., 199. (B.H.W.)

Pachyphanes Dietz.

amœnus Say.

sp.

Desmoris LeConte.

sordidus LeConte. Rhyn. N. E. Am., 206.

Smicronyx Schönherr.

sp. (M.P.Z.)

Endalus Laporte.

limatulus Gyllenhal. Rhyn. N. E. Am., 224.

sp. (B.H.W.)

Tanysphyrus Germar.

lemnæ Fabricius. Rhyn. N. E. Am., 225.

Onychylis LeConte.

(not *Onchylis*, as printed in Check-List).

Bagous Germar.

americanus LeConte. Rhyn. N. E. Am., 234.

sp.

Thysanocnemis LeConte.

balaninoides Schæffer. Rhyn. N. E. Am., 242. (M.P.Z.)

fraxini LeConte. *Ibid.*, 241.

helvola LeConte. *Ibid.*, 242.

Plocetes LeConte.

ulmi LeConte. Rhyn. N. E. Am., 243.

Otidocephalus Chevrolat.

floridanus Casey. Rhyn. N. E. Am., 250.

Magdalis Germar.

barbicornis Latreille. Rhyn. N. E. Am., 257.

gentilis LeConte. *Ibid.*, 256.

pandura Say. *Ibid.*, 260. (M.P.Z.)

perforata Horn. *Ibid.*, 255. (M.P.Z.)

sp.

Anthonomus Germar.

hæmatopus Boheman. *sycophanta* Walsh. Rhyn. N. E. Am., 296. (B.H.W.)

molochinus Dietz. *Ibid.*, 310. (M.P.Z.)

nubiloides Fall. Bull. Brook. Ent. Soc., xxiii, 239.

profundus LeConte. Rhyn. N. E. Am., 290.

robustulus LeConte. *Ibid.*, 312.

rubidus LeConte. *Ibid.*, 291.

Pseudanthonomus Dietz.

cratægi Walsh. Rhyn. N. E. Am., 318. (K.F.C.)

hamamelidis Pierce. *Ibid.*, 319.

validus Dietz. *Ibid.*, 318.

Elleschus Dietz.
ephippiatus (Say). Rhyn. N. E. Am., 284. (M.P.Z.)

Orchestes Illiger.
ephippiatus (Say). Rhyn. N. E. Am., 279. (M.P.Z.)

Gymnetron Schönherr .
antirrhini Paykull. Fauna Suec., Vol. 3, 257. (B.H.W.)
netum Germar. Mag. Ent., iv, 312. (Q.S.L.)
subrotundatum Reitter. Suppl. Leng's List.

Lixus Fabricius.
terminalis LeConte. Rhyn. N. E. Am., 344. (M.P.Z.)

Baris Germar.
ærea Boheman. Rhyn. N. E. Am., 360. (M.P.Z.)
socialis Casey. *Ibid.*, 358.
subsimilis Casey. *Ibid.*, 359. (M.P.Z.)

Plesiobaris Casey.
disjuncta Casey. Rhyn. N. E. Am., 364. (M.P.Z.)

Odontocorynus Schönherr.
sp.

Limnobaris Bedel.
confinis (LeConte). Rhyn. N. E. Am., 400. (M.P.Z.)
grisea (LeConte). *Ibid.*, 398. (W.E.B.)
prolixa LeConte. *Ibid.*, 401. (R.B.F.)
rectirostis (LeConte). *Ibid.*, 402. (M.P.Z.)
sp.

Plocamus LeConte.
hispidulus LeConte. Rhyn. N. E. Am., 416.

Gelus Casey.
oculatus (Say). Rhyn. N. E. Am., 418. (K.F.C.)

Acanthoscelis Dietz.
curtus (Say). Rhyn. N. E. Am., 431.

Auleutes Dietz.
cruralis LeConte. Rhyn. N. E. Am., 435. (M.P.Z.)

Cœliodes Schönherr.

(Delete *acephalus* (Say) in Check-List under *Acanthoscelis*.)

Ceutorhynchus Germar.

americanus Buchanan. Bull. Brook. Ent. Soc., 32, 25.
bolteri Dietz. Rhyn. N. E. Am., 441. (K.F.C.)
erysimi Fall. *Ibid.*, 441.
marginatus (Paykull). *Ibid.*, 444. (K.F.C.)
puberulus LeConte. *Ibid.*, 453. (B.H.W.)
pusio Mannerheim. *Ibid.*, 446. (M.P.Z.)
quadridens Panzer. *Ibid.*, 443.
semirufus LeConte. *Ibid.*, 451. (K.F.C.)
sulcicollis (Paykull). *Ibid.*, 443.
zimmermanni Gyllenhal. *Ibid.*, 451.

Perigaster Dietz.

cretura (Herbst). Rhyn. N. E. Am., 456.
obscura LeConte. *Ibid.*, 456. (M.P.Z.)

Chalcodermus Schönherr.

collaris Horn. Rhyn. N. E. Am., 486. (M.P.Z.)

Conotrachelus Schönherr.

affinis Boheman. Rhyn. N. E. Am., 471.

Tyloderma Say.

ærea var. **nigra** Casey. Rhyn. N. E. Am., 493. (M.P.Z.)

Cryptorhynchus Illiger.

obtentus Herbst. Rhyn. N. E. Am., 512. (M.P.Z.)

Hexarthrum Wollaston.

ulkei Horn. Rhyn. N. E. Am., 543.

Sphenophorus Schönherr.

cariosus Olivier. Rhyn. N. E. Am., 560. (B.H.W.)
costipennis Horn. *Ibid.*, 558. (K.F.C.)
melanocephalus (Fabricius). *Ibid.*, 569. (M.P.Z.)
retusus Gyllenhal. *Ibid.*, 565. (W.E.B.)
villosiventris Chittenden. *Ibid.*, 558. (K.F.C.)

Family SCOLYTIDÆ.

Scolytus Geoffroy.

multistriatus Marsham. *Eccoplogaster.* Can. Bark Beetles, Pt. i, 52.

sulcatus LeConte. *Eccoplogaster. Ibid.*, Pt. i, 53.

Phthorophlœus Rey.

liminaris (Harris). Can. Bark Beetles, Pt. i, 60.

Crypturgus Erichson.

atomus LeConte. Can. Bark Beetles, Pt. i, 54. (K.F.C.)

Phlœosinus Chapuis.

canadensis Swaine. Can. Bark Beetles, Pt. ii, 8. (K.F.C.)

Corthylus Swaine.

punctatissimus Zimmermann. Rhyn. N. E. Am., 642. (M.P.Z.)

Xyloterinus Swaine.

politus (Say). *Xyloterus.* Rhyn. N. E. Am., 645. (K.F.C.)

Trypodendron Stephens.

bivittatum (Kirby). Can. Bark Beetles, Pt. i, 85.

Conophthorus Hopkins.

coniperda Schwarz. Proc. Wash. Ent. Soc., iii, 143.

Pseudopityophthorus Swaine.

minutissimus (Zimmermann). *Pityophthorus.* Rhyn. N. E. Am., 628. (M.P.Z.)

Stephanoderes Eichhoff.

sp.

Pityophthorus Eichhoff.

ramiperda Swaine. Can. Bark Beetles, Pt. ii, 28. (H.W.H.)

rhois Swaine. *Ibid.*, Pt. i, 26.

Ips DeGeer.

calligraphus (Germar). Rhyn. N. E. Am., 638.

Xyleborus Eichhoff.

affinis Eichhoff. Can. Bark Beetles, Pt. ii, 127.

saxesceni Ratzeburg. *Ibid.*, Pt. ii, 126.

xylographus (Say). Rhyn. N. E. Am., 621. (P.G.)

Order **HYMENOPTERA.**

Ants, Bees and Wasps

Family PAMPHILIIDÆ.

Pamphilius Latreille.

semicinctus Norton. Conn. Geol. Nat. Hist. Surv., Bull. 22, 39.

Anoplolyda Costa.

perplexa Cresson. Conn. Geol. Nat. Hist. Surv., Bull. 22, 41.

sp.

Cephaleia Jurine.

Caenolyda Konow.

sp.

Family TENTHREDINIDÆ.

Diprion Schrank.

polytomum Hartig. European spruce sawfly. Conn. Agr. Expt. Sta., Bull. 383, 308.

Empria LePeletier.

obscurata Cresson. *Selandria.* Trans. Am. Ent. Soc., viii, 15.

sp.

Emphytina Rohwer.

tener Fallen. *van duzei* Rohwer. Proc. U. S. Nat. Mus., 49, 205.

Strongylygastroidea Ashmead.

proxima Provancher. Conn. Geol. Nat. Hist. Surv., Bull. 22, 64.

Hemichroa Stephens.

americana Provancher. Conn. Geol. Nat. Hist. Surv., Bull. 22, 106.

dyari Rohwer. Proc. Wash. Ent. Soc., xx, 171.

Dolerus Jurine.

acidus MacGillivray. Ill. Biol. Mon., xii, no. 3, 97.

agcistus MacGillivray. *Ibid.*, xii, no. 3, 59.

apriloides MacGillivray. Can. Ent., xl, 126.

elderi Kinkaid. Ill. Biol. Mon., xii, no. 3, 67.

illini Ross. *Ibid.*, xii, no. 3, 39.

neoagcistus MacGillivray. *Ibid.*, xii, no. 3, 56.

neosericeus MacGillivray. Conn. Geol. Nat. Hist. Surv., Bull. 22, 75.
wanda Ross. Proc. Wash. Ent. Soc., 37, 91.
spp.

Monoctenus Dahlbom.
juniperinus MacGillivray. Can. Ent., xxvi, 328.

MacGillivrayella Ashmead.
pallida Rohwer. Bur. Ent., Tech. Bull. 20, 141.

Abia Leach.
americana Cresson. Conn. Geol. Nat. Hist. Surv., Bull. 22, 102.

Tenthredella Rohwer.
bifasciata (Say). Conn. Geol. Nat. Hist. Surv., Bull. 22, 91. (M.P.Z.)
sp.

Tenthredo Linnæus.
leucostoma Kirby. Proc. Bost. Soc. Nat. Hist., 36, no. 6, 415.
sp.

Macrophya Dahlbom.
dyari Rohwer. Proc. U. S. Nat. Mus., 41, 410.
simillima Rohwer. Ent. News, xxviii, 265.
texana Cresson. Conn. Geol. Nat. Hist. Surv., Bull. 22, 99.

Hoplocampa Hartig.
xantha Rohwer var. Bur. Ent., Tech. Bull. 20, 144.

Craterocerus Rohwer.
fraternalis (Norton). *Hemichroa fraternalis.* Conn. Geol. Nat. Hist. Surv., Bull. 22, 106.

Phrontosoma MacGillivray.
sp.

Priophorus Dahlbom.
betulæ Rohwer. Proc. U. S. Nat. Mus., 60, 27.
cratægi Rohwer. *Ibid.*, 60, 26.
plesius Rohwer. *Ibid.*, 60, 35.
pruni Rohwer. *Ibid.*, 60, 33.
salicivorus Rohwer. *Ibid.*, 60, 29.

Trichiocampus Hartig.

gregarius (Dyar). *Cladius gregarius.* Conn. Geol. Nat. Hist. Surv., Bull. 22, 110.

irregularis (Dyar). *Priophorus irregularis.* Jour. N. Y. Ent. Soc., viii, 28.

Amauronematus Konow.

lineatus Harrington. Conn. Geol. Nat. Hist. Surv., Bull. 22, 124.

Pteronidea Rohwer.

alnivora Rohwer. Proc. U. S. Nat. Mus., 52, 213.

trivittata (Norton). Trans. Am. Ent. Soc., i, 218.

Pontania Costa.

pomum (Walsh). *Nematus.* Conn. Geol. Nat. Hist. Surv., Bull. 22, 140.

Kaliofenusa MacGillivray.

ulmi Sundewall. Elm leaf-miner. Conn. Geol. Nat. Hist. Surv., Bull. 22, 157.

Paracharactus MacGillivray.

niger Harrington. *Phymatocera nigra. Neopareophora nigra.* Conn. Geol. Nat. Hist. Surv., Bull. 22, 144.

Fenusa Leach.

dohrnii (Tishbein). Conn. Geol. Nat. Hist. Surv., Bull. 22, 157.

pumila Klug. Birch leaf-miner. Conn. Agr. Expt. Sta., Bull. 348.

Arge Schrank.

calcanea (Say). Compl. Writ., ii, 673.

cœrulea (Norton). Conn. Geol. Nat. Hist. Surv., Bull. 22, 163.

pectoralis Rohwer. *Ibid.*, Bull. 22, 163.

sp.

Family XIPHYDRIIDÆ.

Xiphydria Latreille.

hicoriæ Rohwer. Ent. News, xxix, 109.

sp. near *tibialis* Say. Compl. Writ., i, 208.

Family CEPHIDÆ.

Cephus Latreille.

cinctus Norton. Trans. Am. Ent. Soc., iv, 86.
pygmæus Linnæus. Conn. Geol. Nat. Hist. Surv., Bull. 22, 174.

Family BRACONIDÆ.

(including *Vipionidae* of Check-List)

Praon Haliday.

simulans Provancher. Addit. Fauna Can. Hymen., 1886, 153.

Aphidius Nees.

granariaphis Cook. Can. Ent., xxiv, 125.
obscuripes Ashmead. Proc. U. S. Nat. Mus., 1888, 660.
phorodontis Ashmead. *Ibid.*, 1888, 662.
piceus Cresson. Rept. Ent., U. S. Dept. Agr., 1879, 260.
salicaphis Fitch. Rept. Insects of N. Y., 1 and 2, 1856, 137.

Chorebus Blanchard.

sp.

Microtonus Foerster.

sp.

Euphorus Nees.

pallipes Curtis. Ent. Mag. ii, 1835, 463.

Meteorus Haliday.

angustipennis Muesebeck. Proc. U. S. Nat. Mus., 63, 19.
bakeri Cook and Davis. *Ibid.*, 63, Art. 2, 29.
pallitarsis Cresson. *Ibid.*, 63, 12.
politus Provancher. *Ibid.*, 63, 8.
proximus Cresson. *exareolatus* Viereck, of Check-List. *Ibid.*, 63, 33.
tauricornis Provancher. *Ibid.*, 63, 27.
trachynotus Viereck. *Ibid.*, 42, 142.
vulgaris Cresson. *Ibid.*, 1888, 642.
sp. ex. *salicis*. On satin moth, liberated 1933.

Perilitus Nees.

coccinellæ Schrank. *Euphorus sculptus* Cresson. Can. Ent., iv, 227.

Macrocentrus Curtis.

ægeriæ Rohwer. Proc. Wash. Ent. Soc., 17, 56. (B.T.R.L.)
ancylivorus Rohwer. *Ibid.*, 25, 168.
crambivorus Viereck. Proc. U. S. Nat. Mus., 80, 15.
gifuensis Ashmead. *Ibid.*, 80, 20. Introduced as a parasite of the European corn borer.
thoracicus Marshall. Trans. Ent. Soc. Lond., 1889, 195.
sp.

Helconidea Viereck.

albitarsis Cresson. Can. Ent., v, 83.
ligator Say. Compl. Writ., 1, 217.

Helcon Nees.

fulvipes Cresson. Proc. Phila. Ent. Soc., iv, 292.

Capitonius Brullé.

caryæ Rohwer. Can. Ent., xlvi, 318.

Ganychorus Haliday.

orchesiæ Ashmead. *Blacus*. Proc. U. S. Nat. Mus., 1888, 645.
sp.

Orgilus Nees.

longiceps Muesebeck. Konowia, 12, 52. Released as a parasite of the Oriental fruit moth.
obscurator Nees. Trans. Ent. Soc. Lond., 1885, 278.
sp.

Eubadizon Nees.

gracilis Provancher. Nat. Can., xii, 171.
magdali Cresson. Psyche, ii, 189.
pleuralis Cresson. Can. Ent., iv, 229.
sp.

Allurus Foerster.

sp.

Triaspis Haliday.

curculionis (Fitch). Conn. Geol. Nat. Hist. Surv., Bull. 22, 234.

Sigalphis Latreille.

spp. 2.

Schizoprymus Foerster.

sp.

Chelonus Jurine.

annulipes Wesmael. Introduced as a parasite of the European corn borer. U. S. Dept. Agr., Tech. Bull. 294.

sp.

Ascogaster Wesmael.

carpocapsæ Viereck. Conn. Geol. Nat. Hist. Surv., Bull. 22, 231.

quadridentata Wesmael. Neuv. Mem. Acad. Sci. Belg., 9, 207.

Phanerotoma Wesmael.

grapholithæ Muesebeck. Proc. Wash. Ent. Soc., 35, 50.

tibialis Haldeman. Proc. Acad. Nat. Sci. Phila., 4, 203. Released as a parasite of the Oriental fruit moth.

Earinus Wesmael.

limitaris Say. Conn. Geol. Nat. Hist. Surv., Bull. 22, 229.

Microgaster Latreille.

auripes Provancher. Addit. Fauna Can. Hymen., 1886, 141.

comptoniæ Viereck. Proc. U. S. Nat. Mus., 39, 403.

facetosa Weed. *solidaginis* Viereck. *Ibid.*, 61, Art. 15, 37.

gelechiæ Riley var. **carinatus** Packard. Conn. Geol. Nat. Hist. Surv., Bull. 22, 201.

melligaster Provancher. Addit. Fauna Can. Hymen., 1886, 143.

pantographæ Muesebeck. Proc. U. S. Nat. Mus., 61, Art. 15, 34.

swammerdamiæ Muesebeck. *Ibid.*, 61, Art. 15, 37.

tibialis Nees. Introduced as a parasite of the European corn borer. Ann. Ent. Soc. Am., xxv, 125.

Microplitis Foerster.

ceratomiæ Riley. *waldeni* Viereck. Conn. Geol. Nat. Hist Surv., Bull. 22, 203.

kewleyi Muesebeck. Proc. U. S. Nat. Mus., 61, Art. 15.

maturus Weed. *Ibid.*, 61, Art. 15, 72.

scutellatus Muesebeck. *Ibid.*, 61, Art. 15, 66.

Apanteles Foerster.

acronyctæ Riley. Proc. U. S. Nat. Mus., 58, 500 and 563.

alypiæ Muesebeck. *Ibid.*, 61, Art. 15, 18.

anisotæ Muesebeck. *Ibid.*, 58, 555.

aristoteliæ Viereck. *gelechiae* Viereck. *Ibid.*, 58, 522.

bedelliæ (Viereck). *Ibid.*, 40, 174; 58, 497 and 550.

canarsiæ Ashmead. *housatannuckorum* and *maquinnai* of Viereck are synonyms. (See Conn. Geol. Nat. Hist. Surv., Bull. 22, 184-200). *Ibid.*, 58, 518.

ceruræ Muesebeck. *Ibid.*, 69, Art. 7, 15.

charadræ Muesebeck. *Ibid.*, 58, 567.

coxalis Muesebeck. *Ibid.*, 69, Art. 7, 13.

edwardsii Riley. Conn. Geol. Nat. Hist. Surv., Bull. 22, 190 and 199.

ensiger (Say). *nipmuckorum* Viereck. Conn. Geol Nat. Hist. Surv., Bull. 22, 191 and 200; Bull. 31, 303 is a synonym. Proc. U. S. Nat. Mus., 58, 489 and 510.

euchætis Ashmead. Proc. Wash. Ent. Soc., iv, 159.

femur-nigrum Provancher. Proc. U. S. Nat. Mus., 58, 490.

fulvipes Haliday. Trans. Ent. Soc. Lond., 1885, 223.

glomeratus (Linnæus). Conn. Geol. Nat. Hist. Surv., Bull. 22, 188.

hydriæ Muesebeck. Proc. U. S. Nat. Mus., 58, 500 and 561.

melanoscelus (Ratzeburg). *Ibid.*, 58, 498 and 554.

noctuidiphagus Muesebeck. *Ibid.*, 69, Art. 7, 7.

paleacritæ Riley. *Ibid.*, 58, 497 and 552.

phobetri (Rohwer). *Ibid.*, 49, 228; 58, 500 and 559.

polychrosidis Viereck. *Ibid.*, 42, 615; 58, 490 and 517.

pyrophilæ Muesebeck. *Ibid.*, 69, Art. 7, 11.

sarrothripæ Weed. Bull. Ill. St. Lab. Nat. Hist., 3, 3.

schizuræ Ashmead. Proc. U. S. Nat. Mus., 58, 502 and 569.

solitarius Ashmead. Trans. Ent. Soc. Lond., 1900, 287.

thompsoni Lyle. Introduced as a parasite of the European corn borer. U. S. Dept. Agr., Tech. Bull. 233.

yakutatensis Ashmead. *hyslopi* Viereck. Proc. U. S. Nat. Mus., 58, 546.

xylinus (Say). *lanificus* Viereck. Conn. Geol. Nat. Hist. Surv., Bull. 22, 187.

spp. 2.

Allodorus Foerster.

sp.

Ichneutes Nees.

fulvipes Cresson. Can. Ent., iv, 231.

Opius Wesmael.

cinctus Provancher. Addit. Fauna Can. Hymen., 1886, 124.
ferrugineus Gahan. Proc. U. S. Nat. Mus., 49, 75.
foveolatus Ashmead. *Ibid.*, 1888, 654.
melleus Gahan. *Ibid.*, 49, 73.

Iphiaulax Foerster.

agrili Ashmead. Conn. Geol. Nat. Hist. Surv., Bull. 22, 210.
sp.

Glyptomorpha Holmgren.

sp.

Cyanopterus Wesmael.

webbi Viereck. Bur. Ent., U. S. Dept. Agr., Bull. 58, 54.
sp.

Atanycolus Foerster.

ulmicola Viereck. Trans. Am. Ent. Soc., xxxii, 176.

Macrodyctium Ashmead.

sp.

Microbracon Ashmead.

atricollis Ashmead. *nawaasorum* Viereck of Check-List, Conn. Geol. Nat. Hist. Surv., Bull. 22, 205; Muesebeck, Proc. U. S. Nat. Mus., 67, Art. 8, 58.

caulicola Gahan. Proc. U. S. Nat. Mus., 67, Art. 8, 72.

gemmæcola Cushman. Jour. Agr. Research, 34, 740.

juncicola Ashmead. *sebequanash* Viereck of Check-List. Conn. Geol. Nat. Hist. Surv., Bull. 22, 204; Muesebeck, Proc. U. S. Nat. Mus., 67, Art. 8, 37.

mellitor Say. Proc. Phila. Ent. Soc., iv, 303.

pini Muesebeck. Proc. U. S. Nat. Mus., 67, Art. 8, 52.

poliventris Cushman. *Ibid.*, 55, 517.

pygmæus Provancher. *massasoit* Viereck of Check-List. *Ibid.*, 67, Art. 8, 38.

sesiæ Muesebeck. *Ibid.*, 67, Art. 8, 53.

variabilis Provancher. *dorsator* var. *variabilis*. Conn. Geol. Nat. Hist. Surv., Bull. 22, 206; Muesebeck, Proc. U. S. Nat. Mus., 67, Art. 8, 69.

xanthonotus Ashmead. Proc. U. S. Nat. Mus., 11, 618.
sp.

Bracon Panzer.

Agathis Latreille.

atricornis Smith. Introduced as a parasite of the European corn borer. Trans. Ent. Soc. Lond., 1874, 398.

montrealensis Morrison. Proc. U. S. Nat. Mus., 52, 326.

Bassus Fabricius.

calcaratus Cresson. Proc. U. S. Nat. Mus., 69, Art. 16, 45.

cinctus Cresson. *Ibid.*, 69, Art. 16, 65.

coleophoræ Rohwer. *Ibid.*, 69, Art. 16, 63.

conspicuus Wesmael. Nouv. Mem. Acad. Sci., Bruxelles, x, 17.

diversus Muesebeck. Proc. Wash. Ent. Soc., 35, 48.

carinoides Cresson. Conn. Geol. Nat. Hist. Surv., Bull. 22, 227.

perforator Provancher. Proc. U. S. Nat. Mus., 69, Art. 16, 44.

tibiator Provancher. *Bracon solidaginis* Viereck of Check-List. *Ibid.*, 69, Art. 16, 57.

Habrobracon Ashmead.

gelechiæ Ashmead, var. Proc. U. S. Nat. Mus., 1888, 623.

Doryctes Haliday.

femur-rubrum Ashmead. Trans. Am. Ent. Soc., xxxviii, 383.

rufiventris Brullé. Hist. Nat. Insect. Hymen., iv, 458.

Bucculatriplex Viereck.

sp.

Phanomeris Foerster.

sp.

Rogas Nees.

Aleiodes Wesmael.

intermedius Cresson. Trans. Am. Ent. Soc., ii, 380.

rileyi Cresson. *Ibid.*, ii, 382.

spp. 2.

Hecabolus Curtis.

sp.

Spathius Nees.

canadensis Ashmead. Can. Ent., xxiii, 2.

Heterospilus Haliday.

anthaxiæ Ashmead. Can. Ent., xxv, 77.

sp.

Family STEPHANIDÆ.

Stephanus Jurine.

acutus LePeletier and Serville. Encycl. Meth., x, 489.

Family BANCHIDÆ.

Banchus Fabricius.

canadensis Cresson. Can. Ent., i, 34.

flavescens Cresson. *Ibid.*, i, 33.

Family ICHNEUMONIDÆ.

Amblyteles Wesmael.

albomarginatus Cresson. Trans. Am. Ent. Soc., i, 297.

annulipes Cresson. Conn. Geol. Nat. Hist. Surv., Bull. 22, 348.

azotus Cresson. *Ibid.*, Bull. 22, 351.

cæruleus Cresson. *Ibid.*, Bull. 22, 351.

canadensis (Cresson). *Pterocormus*. Trans. Am. Ent. Soc., i, 308.

detritus Brullé. Conn. Geol. Nat. Hist. Surv., Bull. 22, 349, 360.

devinctor (Say). *Ibid.*, Bull. 22, 347, 354.

duplicatus (Say). *Ibid.*, Bull. 22, 354.

fuscifrons Cresson. Proc. Phila. Ent. Soc., iii, 166.

grandis Brullé. Conn. Geol. Nat. Hist. Surv., Bull. 22, 347.

inurbanus Cresson. Trans. Am. Ent. Soc., i, 302.

lachrymans Provancher. *Ibid.*, vi, 171.

leucaniæ Fitch. Rept. Ins. N. Y., 6, 126.

longulus Cresson. Conn. Geol. Nat. Hist. Surv., Bull. 22, 355.

mendax (Cresson). Trans. Am. Ent. Soc., vi, 149.

milvus (Cresson). Conn. Geol. Nat. Hist. Surv., Bull. 22, 353.

nanodes Cushman. *nanus* Cresson. *Ibid.*, Bull. 22, 349.

orpheus Cresson. *Ibid.*, Bull. 22, 345, 355.

paratus Say. *Ibid.*, Bull. 22, 353.

pullatus Cresson. (*subcyaneus* Cresson of Check-List). *Ibid.*, Bull. 22, 351.

rubicundus Cresson. Proc. Phila. Ent. Soc., iii, 176.
rufiventris Brullé. Conn. Geol. Nat. Hist. Surv., Bull. 22, 354.
sagus Cresson. *Ibid.*, Bull. 22, 350.
saucius Cresson. *Ibid.*, Bull. 22, 345.
scitulus Cresson. *Ibid.*, Bull. 22, 354.
suadus Cresson. Trans. Am. Ent. Soc., vi, 160.
subdolus Cresson. Conn. Geol. Nat. Hist. Surv., Bull. 22, 346, 358.
sublatus Cresson. *Ibid.*, Bull. 22, 350, 357.
subrufus Cresson. Trans. Am. Ent. Soc., vi, 193.
vitalis Cresson. *Ibid.*, vi, 149.

Herpestomus Wesmael.

sp.

Otacustes Foerster.

sp.

Stenodontus Berthoumien.

sp.

Phæogenes Wesmael.

fungor Norton. Conn. Geol. Nat. Hist. Surv., Bull. 22, 341-2.
hæussleri Cushman. Jour. Wash. Acad. Sci., 25, 547.
nigridens Wesmael. U. S. Dept. Agr., Tech. Bull. 331. Introduced as a parasite of the European corn borer.

Stylocryptus Thomson.

subclavatus (Say). *Phygadeuon rotundiceps* Provancher. Can. Hym., 1883, 320.

Pezoporus Foerster.

indistinctus Provancher. Add. Fauna Can. Hymen., 43. Parasite of the European pine shoot moth.
sp.

Phygadeuon Gravenhorst.

abdominalis Provancher. Nat. Can., 11, 73.
maculata Provancher. *Ibid.*, 7, 178.
pallescens Viereck. Conn. Geol. Nat. Hist. Surv., Bull. 22, 334, 337.

Anurotropus Cushman.

minutus Cushman. Proc. U. S. Nat. Mus., 64, Art. 4, 5.

Aenoplex Foerster.

betulæcola Ashmead. Trans. Am. Ent. Soc., xxiii, 401.

Mastrus Foerster.

neodiprioni Viereck. Proc. U. S. Nat. Mus., 40, 195.

sp.

Hemiteles Gravenhorst.

sessilis Provancher. Nat. Can., 11, 124.

tenellus (Say). *utilis* Norton. *areator* subsp. *tenellus* of Check-List. Conn. Geol. Nat. Hist. Surv., Bull. 22, 339; Trans. Am. Ent. Soc., ii, 326.

sp.

Apterophygus Foerster.

sp.

Gelis Thunberg.

Pezomachus Gravenhorst.

bruesii Strickland. *obesus* Brues. Bull. Wis. Nat. Hist. Soc., viii, 68.

bucculatricis Ashmead. Proc. U. S. Nat. Mus., xii, 401.

flavocinctus Ashmead. Trans. Am. Ent. Soc., xxix, 120.

micariæ Howard. *Ibid.*, xxix, 120.

nocnus Cushman. Jour. Agr. Res., 34, 455.

unicolor Cresson. Conn. Geol. Nat. Hist. Surv., Bull. 22, 327.

urbanus Brues. Bull. Wis. Nat. Hist. Soc., viii, 67.

spp. 3.

Spilocryptus Thomson.

nuncius (Say). Compl. Writ., 2, 693.

Aptesis Foerster.

microptera (Say). Conn. Geol. Nat. Hist. Surv., Bull. 22, 328.

Isadelphus Foerster.

smithii Packard. Cocoon parasite of the Oriental fruit moth.

Agrothereutes Foerster.

Cryptus Fabricius.

exareolatus Viereck. *Spilocryptus*. Trans. Am. Ent. Soc., xxix, 81.

extrematis Cresson. Conn. Geol. Nat. Hist. Surv., Bull. 22, 332.

persimilis Cresson. *Cryptus.* Proc. Phila. Ent. Soc., iii, 298.
vinctus Say.
spp. 2.

Chromocryptus Ashmead.

nebraskensis Ashmead. *albopictus. Mesostenimorpha.* Proc. U. S. Nat. Mus., 12, 412.

Idiolispa Foerster.

sp.

Trychosis Foerster.

sp.

Cryptoideus Ashmead.

anthracinus Cushman. Proc. U. S. Nat. Mus., 64, Art. 4, 7.

Mesostenidea Viereck.

albomaculata (Cresson). *Mesostenus.* Conn. Geol. Nat. Hist. Surv., Bull. 22, 329.
erythrogaster (Ashmead). *Mesostenus.* Proc. U. S. Nat. Mus., xii, 406.

Arotes Gravenhorst.

decorus Say. Conn. Geol. Nat. Hist. Surv., Bull. 22, 326.

Coleocentrus Gravenhorst.

similis Cushman. Proc. U. S. Nat. Mus., 57, 514.

Labena Cresson.

grallator (Say). Conn. Geol. Nat. Hist. Surv., Bull. 22, 309.

Cryptopimpla Taschenberg.

sp.

Lissonota Gravenhorst.

parva (Cresson). *Lampronota.* Trans. Am. Ent. Soc., iii, 163.
rufipes (Cresson). *Lampronota. Ibid.*, iii, 161.
scutellaris (Cresson). *Lampronota. Ibid.*, iii, 161.

Arenetra Holmgren.

nigrita Walsh. Conn. Geol. Nat. Hist. Surv., Bull. 22, 315.

Ichneumon Linnæus.

Ephialtes Gravenhorst.

comstocki (Cresson). *Calliephialtes.* Conn. Geol. Nat. Hist. Surv., Bull. 22, 324.

grapholithæ Cresson. Ent. News, i, 50.

macer Cresson. Conn. Geol. Nat. Hist. Surv., Bull. 22, 324.

montana Cushman. *Itoplectis.* Proc. U. S. Nat. Mus., 58, 346. Liberated in Orange as a parasite of the spruce sawfly.

tuberculatus Cresson. Conn. Geol. Nat. Hist. Surv., Bull. 22, 324.

Rhyssella Rohwer.

nitida (Cresson). *Megarhyssa.* Conn. Geol. Nat. Hist. Surv., Bull. 22, 325.

Exeristes Foerster.

roborator Fabricius. Zool. Jahrb., iii, 1888, 483.

Scambus Hartig.

æqualis (Provancher). *Ephialtes.* Nat. Can., Hymen., 1883, 457.

indagator (Cresson). *Epiurus.* Trans. Am. Ent. Soc., iii, 147.

ovivora (Boheman). *Tromatobia.* Svensk. Vet-Akad. Handl., xlii, 335.

picticornis Cresson. Trans. Am. Ent. Soc., iii, 146.

sp.

Ephialtes Gravenhorst.

examinator Fabricius. Ichneum. de Forstinsect., ii, 1848, 93.

Theronia Holmgren.

atalantæ Cresson. *fulvescens.* Conn. Geol. Nat. Hist. Surv., Bull. 22, 323.

fulvescens Cresson. *Ibid.*, Bull. 22, 323.

Eremochila Foerster.

ruficollis Gravenhorst. Zool. Jahrb., iii, 1888, 494.

Glypta Gravenhorst.

erratica Cresson. Conn. Geol. Nat. Hist. Surv., Bull. 22, 316.

inversa Cresson. Trans. Am. Ent. Soc., iii, 153.

tuberculifrons Walsh. Trans. Acad. Sci. St. Louis, iii, Pt. 1, 1873, 124.

vulgaris Cresson. Conn. Geol. Nat. Hist. Surv., Bull. 22, 316.

Polysphinctomorpha Ashmead.

sp.

Polysphincta Gravenhorst.

burgessii Cresson. Trans. Am. Ent. Soc., iii, 150.

Tromatobia Foerster.

rufopectus Cresson. Trans. Am. Ent. Soc., iii, 147.

Echthrus Gravenhorst.

niger Cresson. Can. Ent., i, 37.

Odontomerus Gravenhorst.

canadensis Provancher. Nat. Can., xii, 102; Proc. U. S. Nat. Mus., 57, 458.

striatus Cushman. Proc. U. S. Nat. Mus., 77, Art. 3, 77.

Xorides Gravenhorst.

albopictus Cresson. *Xylonomus*. Conn. Geol. Nat. Hist. Surv., Bull. 22, 310.

calidus Provancher. Proc. U. S. Nat. Mus., 57, 432.

humeralis Say. Compl. Writ., ii, 682.

Xylonomus Gravenhorst.

stigmapterus Cresson or Say? Conn. Geol. Nat. Hist. Surv., Bull. 22, 310.

Spanotecnus Foerster.

discolor Cresson. Conn. Geol. Nat. Hist. Surv., Bull. 22, 292.

Eclytus Holmgren.

pleuralis (Provancher). Nat. Can., viii, 328.

Synoecetes Foerster.

festivus (Cresson). *Tryphon festivus*. Proc. Phila. Ent. Soc., iii, 279; Trans. Am. Ent. Soc., xxiv, 279.

Tryphon Gravenhorst.

communis Cresson. Conn. Geol. Nat. Hist. Surv., Bull. 22, 294.

seminiger Cresson. *Ibid.*, Bull. 22, 294.

Hadostates Thomson.

sp.

Camponastes Foerster.

sp.

Eczetesis Foerster.

paniscoides Ashmead. Conn. Geol. Nat. Hist. Surv., Bull, 22,299.

Euceros Gravenhorst.

canadensis Cresson. Conn. Geol. Nat. Hist. Surv., Bull. 22, 299.

sp. near *sanguineus* Davis. Trans. Am. Ent. Soc., xxiv, 256.

Notopygus Holmgren.

cymbaformus Davis. *Prosmosus*. Trans. Am. Ent. Soc., xxiv, 309.

Exochus Gravenhorst.

albifrons Walsh. Trans. Am. Ent. Soc., ii, 114.

annulicrus Walsh. Conn. Geol. Nat. Hist. Surv., Bull. 22, 306.

Triclistus Foerster.

curvator Fabricius. Conn. Geol. Nat. Hist. Surv., Bull. 22, 307.

Pseudometopius Davis.

hageni Cresson. Conn. Geol. Nat. Hist. Surv., Bull. 22, 308.

Zootrephes Foerster.

compressiventris Cresson. *Otoblastus*. Conn. Geol. Nat. Hist. Surv., Bull. 22, 296.

Hadrodactylus Foerster.

longicornis Cresson. Conn. Geol. Nat. Hist. Surv., Bull. 22, 289.

sp.

Synomelix Foerster.

sp.

Microplectron Foerster.

fuscipennis Zetterstedt. Bull. Ent. Res., 26, 407.

Exenterus Hartig.

marginatorius Foerster. Parasite of spruce sawfly, liberated at Orange, 1936.

Erromenus Holmgren.

crassus Cresson. Conn. Geol. Nat. Hist. Surv., Bull. 22, 298.

sp.

Neleothymus Foerster.

sp.

Hypocryptus Foerster.

sp.

Sagaritis Holmgren.

provancheri Dalla Torre. Conn. Geol. Nat. Hist. Surv., Bull. 22, 262.

sp.

Campoplex Gravenhorst.

annulipes (Cresson). Conn. Geol. Nat. Hist. Surv., Bull. 22, 266.

ruficoxalis Viereck. Can. Ent., lviii, 144.

validus (Cresson). *Limnerium validum. Mesoleptus.* Proc. Phila. Ent. Soc., 3, 258.

sp.

Dioctes Foerster.

molestæ Uchida. Jour. Wash. Acad. Sci., 23, 148.

obliteratus (Cresson). Conn. Geol. Nat. Hist. Surv., Bull. 22, 266.

Inareolata Foerster.

punctoria Roman. Internat. Corn Borer Invest., Sci. Repts. 117, 1927-28. Parasite of European corn borer.

Angitia Holmgren.

sp.

Casinaria Holmgren.

orgyiæ Howard. Conn. Geol. Nat. Hist. Surv., Bull. 22, 269.

Exetastes Gravenhorst.

angustoralis Cushman. Proc. U. S. Nat. Mus., 84, 286.

nervulus Say var. **nervulus** Say. *Ibid.*, 84, 310.

nervulus var. **intermedius** Cushman. *Ibid.*, 84, 310.

nervulus var. **rufofemoratus** Cushman. *Ibid.*, 84, 311.

ornatus Cushman. *Ibid.*, 84, 291.

rufofemoratus Provancher. Nat. Can., xi, 212.

Pristomerus Curtis.

ocellatus Cushman. Proc. U. S. Nat. Mus., 58, 277. Released as a parasite of the Oriental fruit moth.

vulnerator Panzer. Introduced as a parasite of the Oriental fruit moth.

Mesochorus Gravenhorst.

sp.

Agrypon Foerster.

clavipes Davis. Trans. Am. Ent. Soc., xxiv, 359. Released as a parasite of the Oriental fruit moth.

Monoblastus Hartig.

sp.

Paniscus Gravenhorst.

brevicornis Cushman. Proc. U. S. Nat. Mus., 64, Art. 20, 27.

spinipes Cushman. *Ibid.*, 64, Art. 20, 32.

Absyrtus Holmgren.

perillissoides Cushman. Proc. U. S. Nat. Mus., 64, Art. 20, 19.

Opheltes Holmgren.

glaucopterus Linnæus. Conn. Geol. Nat. Hist Surv., Bull. 22, 281.

glaucopterus var. **flavipennis** Provancher. Proc. U. S. Nat. Mus., 64, Art. 20, 15.

sp.

Eulimneria Schmiedeknecht.

alkæ Ellinger and Sachtleben. Introduced as a parasite of the European corn borer.

Ophion Fabricius.

bifoveolatus Brullé. Conn. Geol. Nat. Hist. Surv., Bull. 22, 287.

Eiphosoma Cresson.

septentrionale Brues. Psyche, xviii, 22.

Leptopygus Foerster.

sp.

Cremastus Gravenhorst.

cleridivorus Cushman. Proc. U. S. Nat. Mus., 53, 534.

cookei Weed. Conn. Geol. Nat. Hist. Surv., Bull. 22, 277.

epagoges Cushman. Proc. U. S. Nat. Mus., 53, 531.

flavo-orbitalis Cameron. Jour. Bombay Nat. Hist. Soc., 1907, 589. Introduced as a parasite of the European corn borer.

interruptor Gravenhorst. Ichneum. Europe, 3, 736. A parasite of the European pine shoot moth.

sp.

Ameloctonus Foerster.

sp.

Zachresta Foerster.

obesa Davis. Trans. Am. Ent. Soc., xxiv, 361.

Hyposoter Foerster.

interjectus Gahan. Proc. U. S. Nat. Mus., 48, 156.

rubiginosus Cushman. Described from Connecticut. *Ibid.*, 64, Art. 4, 11.

Limnerium Holmgren.

sp.

Family BETHYLIDÆ.

Cephalonomia Westwood.

waterstoni Gahan. Wash. Acad. Sci., 21, 1931.

Epyrus Westwood.

sp.

Perisierola Cameron.

angulata Muesebeck. Proc. Wash. Ent. Soc., 35, 53.

Perisemus Foerster.

minimus Ashmead. Mon. N. A. Procto., 69.

Family DRYINIDÆ.

Gonatopus Ljungh.

flavifrons Ashmead. Bull. U. S. Nat. Mus., P. 45, 84. (H.L.J.)

ombrodes Perkins. Hawaii Sugar Plan. Assoc., Div. Ent. Bull. 1, Pt. 1, 43.

sp.

Aphelopus Dalman.

melaleucus Dalman. Mon. N. A. Procto., 101.

sp.

Family CERAPHRONIDÆ.

Lygocerus Foerster.

niger Howard. Mon. N. A. Procto., 110.

stigmatus Say. *Ibid.*, 110.

Megaspilus Westwood.

marylandicus Ashmead. *Conostigmus*. Mon. N. A. Procto., 116.

sp.

Family SCELIONIDÆ.

Telenomus Haliday.

bifidius Riley. Mon. N. A. Procto., 154.
californicus Ashmead. *Ibid.*, 156.
clisiocampæ Riley. Conn. Geol. Nat. Hist. Surv., Bull. 22, 549.
glacilicornis Ashmead. Mon. N. A. Procto., 149.
graptæ Howard. *Ibid.*, 151.
podisi Ashmead. *Ibid.*, 158.

Trissolcus Ashmead.

euschisti Ashmead. Mon. N. A. Procto., 162.

Dissolcus Ashmead.

nigricornis Ashmead. Mon. N. A. Procto., 165.

Acolus Foerster.

sp.

Scelio Latreille.

sp.

Family PLATYGASTERIDÆ.

Acerata Foerster.

melanostropha Ashmead. Mon. N. A. Procto., 262.

Eritrissomerus Ashmead.

sp.

Polygnotus Foerster.

utahensis Ashmead. Mon. N. A. Procto., 314.

Platygaster Latreille.

caryæ Ashmead. Mon. N. A. Procto., 323.

Isocybus Foerster.

canadensis Provancher. Mon. N. A. Procto., 329.

Family PROCTOTRYPIDÆ.

Proctotrypes Latreille.

Serphus Schrank.

pallidus Say. Mon. N. A. Procto., 336.

Family BELYTIDÆ.

Belyta Nees.

texana Ashmead. Mon. N. A. Procto., 355.

Zelotypa Foerster.

texana Ashmead. Mon. N. A. Procto., 364.

Pantoclis Foerster.

sp. near *crassicornis* Ashmead. Mon. N. A. Procto., 366.

Family DIAPRIIDÆ.

Paramesius Westwood.

pallidipes Ashmead. Mon. N. A. Procto., 395.

Aneurhynchus Westwood.

mellipes Ashmead. Mon. N. A. Procto., 404.

Galesus Curtis.

quebecensis Provancher. Mon. N. A. Procto., 409.

Trichopria Ashmead.

torquata Provancher. U. S. Nat. Mus., Bull. 45, 419.

sp.

Pentapria Kieffer.

sp.

Family CYNIPIDÆ.

Neuroterus Hartig.

irregularis Osten Sacken. Conn. Geol. Nat. Hist. Surv., Bull. 22, 392.

Diplolepis Geoffroy.

Dryophanta Foerster.

lanata Gillette. Key to Am. Insect Galls, 114.

palustris Osten Sacken. *Andricus.* Succulent oak gall. *Ibid.*, 90.

Disholcaspis Dalla Torre and Kieffer.

mamma (Walsh). Pointed bullet gall. Key to Am. Insect Galls, 70.

Acraspis Mayr.

pezomachoides Osten Sacken. Oak pea gall. N. Y. State Mus., Bull. 200, 93, 94.

Philonix Fitch.

nigra Gillette. Key to Am. Insect Galls, 96.

Andricus Hartig.

lana (Fitch). *Synergus*. Oak wool gall-fly. Conn. Geol. Nat. Hist. Surv., Bull. 22, 380.

Diastrophus Hartig.

niger Bassett. Conn. Geol. Nat. Hist. Surv., Bull. 22, 439.

Aylax Hartig.

Aulax Hartig.

glechomæ Linnæus. Ground ivy gall. Key to Am. Insect Galls, 183.

Rhodites Hartig.

nebulosus Bassett. N. Y. State Mus., Bull. 200, 145, 148.

Synergus Hartig.

campanula Osten Sacken. Proc. Phila. Ent. Soc., iv, 375.
dimorphus Osten Sacken. *Ibid.*, iv, 376.
læviventris Osten Sacken. *Ibid.*, i, 57.
lignicola Osten Sacken. *Ibid.*, i, 252.
sp.

Ceroptres Hartig.

sp.

Family CALLIMOMIDÆ.

Lochites Foerster.

smithi Schread. Described from Connecticut. Bull. Brook. Ent. Soc., xxxii, 102.

Callimome Spinola.

advenum Osten Sacken. Proc. U. S. Nat. Mus., 70, 97.
alamedensis Huber. *Ibid.*, 70, 28.
alaskensis Huber. *Ibid.*, 70, 31.
asteridis Huber. *Ibid.*, 70, 43.
baccharidis Huber. *Ibid.*, 70, 46.
californicum Ashmead. var. *Ibid.*, 70, 87.
capillaceum Huber. *Ibid.*, 70, 74.
castanopsidis Huber. *Ibid.*, 70, 64.

chrysochlora Osten Sacken. *Ibid.*, 70, 37.
coccineum Huber. *Ibid.*, 70, 49.
coloradensis Huber. *Ibid.*, 70, 49.
druparum Boheman. *Syntomaspis druparum* of Check-List. Apple seed chalcid. *Ibid.*, 70, 20.
duplicatum Huber. *Ibid.*, 70, 27.
dura Osten Sacken. *Ibid.*, 70, 25.
ebria Osten Sacken. *Ibid.*, 70, 24.
ferrugineipes Huber. *Ibid.*, 70, 33.
flaviventre Ashmead. *Ibid.*, 70, 41.
holcaspoidea Ashmead. *Ibid.*, 70, 91.
magnificum Osten Sacken. *Ibid.*, 70, 36.
mellipes Huber. *Ibid.*, 70, 23.
pilularidis Huber. *Ibid.*, 70, 45.
rohweri Huber. *Ibid.*, 70, 58.
solidaginis Huber. *Ibid.*, 70, 92.
subdolum Huber. *Ibid.*, 70, 85.
thalassinum Crosby. *Ibid.*, 70, 57.
tubicola Osten Sacken. *Ibid.*, 70, 60.
umbilicatum Gahan. *Ibid.*, 70, 94.
sp.

Megastigmus Dalman.

lasiocarpa Crosby. Ann. Ent. Soc. Am., vi, 163.
nigrovariegatus Ashmead. *Ibid.*, vi, 158.
pini Parfitt. *Ibid.*, vi, 160.

Monobæus Foerster.

sp.

Ormyrus Westwood.

distinctus Westwood. Jour. N. Y. Ent. Soc., 20, 276.
dryorhizoxeni Westwood. Trans. Am. Ent. Soc., xii, xiv.
minutus Ashmead. *Ibid.*, xiv, 189.
ventricosus Ashmead. *Ibid.*, xiv, 189.
sp.

Family CHALCIDIDÆ.

Phasgonophora Westwood.

sulcata Westwood. *gigantea.* Can. Ent., xiii, 90.

Trigonura Sichel.

hicoriæ Rohwer. Can. Ent., li, 160.

Chalcis Fabricius.

sp.

Smicra Spinola.

flebilis Cresson. Trans. Am. Ent. Soc., iv, 39.

Spilochalcis Thomson.

brachata Sanborn. Conn. Geol. Nat. Hist. Surv., Bull. 22, 527.
coxalis Cresson. *Smicra.* Trans. Am. Ent. Soc., iv, 45.
nortoni Cresson. Conn. Geol. Nat. Hist. Surv., Bull. 22, 527.

Family EURYTOMIDÆ.

Harmolita Motschulsky.

Isosoma Walker.

bromicola Howard. Proc. U. S. Nat. Mus., 55, 448.
grandis Riley. *Ibid.*, 55, 440.
maculata Howard. *Ibid.*, 55, 449.
poæ Phillips and Emery. *Ibid.*, 55, 445.
sp.

Prodecatoma Ashmead.

phytophaga Crosby. Can. Ent., xli, 50.

Eurytoma Illiger.

crassineura Ashmead. Trans. Am. Ent. Soc., xxi, 324.
dorcaschemæ Ashmead. Kans. Agr. Coll., Bull. 3, ii.
funebris Howard. *Brucophagus funebris.* Conn. Geol. Nat. Hist. Surv., Bull. 22, 520.
juniperinus Marcovitch. Ann. Ent. Soc. Am., viii, 166.
orchidearum Westwood. Ins. Life, 1, 121.
rhois Crosby. Can. Ent., xli, 52.
solenozopheriæ Ashmead. Trans. Am. Ent. Soc., xiv, 196.
stigma Ashmead. Psyche, vii, 271.
studiosa Say. Conn. Geol. Nat. Hist. Survey., Bull. 22, 520.
tomici Ashmead. Trans. Am. Ent. Soc., xxi, 325.
tylodermatis Ashmead. *Ibid.*, xxiii, 218.
sp.

Systole Walker.

sp.

Systolodes Ashmead.

brevicornis Ashmead. Trans. Am. Ent. Soc., xxi, 320.

Brucophagus Ashmead.

sp.

Evoxysoma Ashmead.

sp.

Rileya Ashmead.

cecidomyiæ Ashmead. Proc. Wash. Ent. Soc., xx, 148.

Decatoma Spinola.

bicolor Ashmead. Trans. Am. Ent. Soc., ix, xxxii.
dubia Walsh. Proc. U. S. Nat. Mus., 79, 41.
nigriceps Walsh. *Ibid.*, 79, 62.
occidentalis Balduf. *Ibid.*, 79, 58.
varians Walsh. Am. Ent. & Bot., 2, 300. (B.T.R.L.)
waltzæ Balduf. Proc. U. S. Nat. Mus., 79, 83.

Family PERILAMPIDÆ.

Perilampus Latreille.

fulvicornis Ashmead. Trans. Am. Ent. Soc., xiii, 126.
tassoni Girault. Insec. Insc. Menstr., 10, 39.

Chrysolampus Spinola.

spinola Ratzeburg. Ichneum.d. Forstinsect. 1, 189, 1844.
sp.

Family MISCOGASTERIDÆ.

Erotolessia Howard.

spp. 2.

Terobia Foerster.

sp.

Tridymus Ratzeburg.

aphidis Girault. Proc. U. S. Nat. Mus., 53, 450.
biguttatipennis Girault. *Ibid.*, 53, 449.
gargantua Girault. Psyche, xxiv, 98.
spp. 2.

Hemadas Crawford.

nubilipennis Ashmead. *Megorismus.* Trans. Am. Ent. Soc., xiv, 192. (B.T.R.L.)

Semiotellus Westwood.

sp.

Aepocerus Mayr.

sp.

Texobia Foerster.

sp.

Arthrolysis Foerster.

sp.

Halticoptera Spinola.

brodiei Ashmead. Trans. Am. Ent. Soc., xxiv, 192.

sp.

Lamprotatus Westwood.

sp.

Seladerma Walker.

sp.

Megorismus Walker.

sp.

Lelaps Haliday.

sp.

Neolelaps Ashmead.

sp.

Mesolelaps Ashmead.

sp.

Family EUPELMIDÆ.

Metapelma Westwood.

spectabilis Westwood. Conn. Geol. Nat. Hist. Surv., Bull. 22, 508.

Cerambycobius Ashmead.

sp.

Eupelminus Dalla Torre.

saltator Lindeman. Jour. Agr. Res., 34, 473.

sp.

Eupelmus Dalman.

limneriæ Howard. Conn. Geol. Nat. Hist. Surv., Bull. 22, 511.
momphæ Gahan. Can. Ent., xlii, 205.
pini Taylor. Ent. Amer., x, 12.
spongiportus Foerster. Verh. Nat. Ver. Preuss. Rheinl., 17, 123.

Family ENCYRTIDÆ.

Dinocarsis Foerster.

pulcher Ashmead. Ent. Amer., iv, 17.

Pentacnemus Howard.

bucculatricis Howard. Proc. U. S. Nat. Mus., 15, 366.

Encyrtus Foerster.

cecidomyiæ Howard. Descr. N. A. Chalcid., 16.
megouræ Ashmead. Div. of Ent., U.S.D.A., Bull. 14, 19.
sublestus Howard. Descr. N. A. Chalcid., 12.
sp.

Habrolepis Foerster.

dalmani Westwood. Phil. Mag., 1837, 440.

Prionomastix Mayr.

sp.

Comys Foerster.

albicoxa Ashmead. Conn. Geol. Nat. Hist. Surv., Bull. 22, 495.
fusca Howard. *Ibid.*, Bull. 22, 495.

Chiloneurus Westwood.

swezeyi Ashmead. Conn. Geol. Nat. Hist. Surv., Bull. 22, 496.

Litomastix Thomson.

truncatella Dalman. Conn. Geol. Nat. Hist. Surv., Bull. 22, 503.

Copidosoma Ratzeburg.

celanæ Howard. Descr. N. A. Chalcid., 11.
geniculatum Dalman. Svensk. Vet-Akad. Handl., xli, 361.
nanellæ Silvestri. Proc. U. S. Nat. Mus., 77, 7.
sp.

Oœncyrtus Ashmead.

clisiocampæ Ashmead. Conn. Geol. Nat. Hist. Surv., Bull. 22, 506.

kuvanæ Howard. *Schedius.* Bur. Ent., Bull. 91, 176.
sp.

Prionomitis Mayr.

sp.

Clausenia Ishii.

purpurea Ishii. Imperial Plant Quarantine Station of Japan, Bull. 3, 100. (S.W.B.)

Family PTEROMALIDÆ.

Psilocera Walker.

sp.

Rhopalicus Foerster.

suspensus Ratzeburg. Ichneum. d. Forstins. 1, 189.

Habrocytus Thomson.

borrowi Girault. Can. Ent., xlix, 179.
rhodobæini rosæ Girault. *Ibid.*, xlix, 180.
thyridopterigis Howard. U. S. Dept. Agr., Tech. Ser., Bull 5, 35.
sp.

Belonura Ashmead.

sp.

Trichoglenes Thomson.

occidentalis Ashmead. Trans. Am. Ent. Soc., xxiii, 225.

Polyscelis Thomson.

sp.

Pteromalus Swederus.

archippi Howard. Conn. Geol. Nat. Hist. Surv., Bull. 22, 473.
medicaginis Gahan. *Habrocytus.* Can. Ent., xlix, 180.
omnivorus Walker. *Diglochis.* Conn. Geol. Nat. Hist. Surv., Bull. 22, 475.
puparum Linnæus. *Ibid.*, Bull. 22, 471.
spp. 4.

Catolaccus Thomson.

anthonomi Ashmead. Ins. Life, 5, 185.
celiodis Ashmead. Trans. Am. Ent. Soc., xxiii, 226.
nigroæneus Ashmead. Proc. Wash. Ent. Soc., ix, 160.
spp. 4.

Meroporus Blanchard.

sp.

Diglochis Foerster.

sp.

Dibrachys Foerster.

clisiocampæ Fitch. Can. Ent., xlviii, 408.
hemerocampæ Girault. Psyche, xv, 92.
scutellata Muesebeck. Jour. Agr. Res., 34, 331.

Micromelus Walker.

sp.

Merisus Walker.

spp. 2.

Pachyneuron Walker.

altiscuta Howard. Conn. Geol. Nat. Hist. Surv., Bull. 22, 482.
micans Howard. *Ibid.*, Bull. 22, 482.
syrphi Ashmead. Trans. Am. Ent. Soc., xiii, 131.
sp.

Cyrtogaster Walker.

occidentalis Ashmead. Trans. Am. Ent. Soc., xxiii, 230.

Polycystus Westwood.

foersteri Crawford. Proc. U. S. Nat. Mus., 45, 118.

Enrydinota Foerster.

lividicorpus Girault. Introduced from Austria.
sp.

Spalangia Latreille.

rugosicollis Ashmead. Proc. Wash. Ent. Soc., iii, 36.

Family EULOPHIDÆ.

Dipara Walker.

sp.

Secodes Foerster.

phlœtribi Ashmead. Trans. Am. Ent. Soc., xxiii, 233.

Euderus Haliday.

elongatus Ashmead. *Omphale.* Conn. Geol. Nat. Hist. Surv., Bull. 22, 456.
sp.

Chrysocharis Foerster.

mallochi Gahan. Proc. U. S. Nat. Mus., 53, 213.
pallipes Gahan. Ann. Ent. Soc. Am., xxv, 749.
sp.

Horismenus Haliday.

euplectri Howard. Conn. Geol. Nat. Hist. Surv., Bull. 22, 458.
texanus Girault. U. S. Dept. Agr. Misc. Pubs., No. 174, 128.
spp. 2.

Pleurotropis Foerster.

bucculatricis Gahan. Psyche, xxxiv, 171. (R.B.F.)
sp.

Derostenus Westwood.

diastatæ Howard. Rept. Ent. U. S. 1880, 2, 6.
fullowayi Crawford. Proc. U. S. Nat. Mus., 46, 348.

Chrysonotomyia Ashmead.

sp.

Solenotus Foerster.

sp.

Hyssopus Girault.

thymus Girault. Can. Ent., xlviii, 115.

Syntomosphyrum Foerster.

esurius Riley. Conn. Geol. Nat. Hist. Surv., Bull. 22, 452.
orgyræ Ashmead. *Ibid.*, Bull. 22, 452.

Trichaporus Foerster.

sp.

Tetrastichus Haliday.

ainslei Gahan. Proc. U. S. Nat. Mus., 53, 214.
banksii Howard. Proc. Wash. Ent. Soc., ii, 299.
brevistigma Gahan. *Ibid.*, 38, 76.
coerulescens Ashmead. *Ibid.*, iv, 130.
detrimentosus Gahan. Proc. U. S. Nat. Mus., 46, 439.
floridanus Ashmead. Trans. Am. Ent. Soc., xiv, 203.
hunteri Crawford. Proc. Wash. Ent. Soc., ii, 150.
malacosomæ Girault. Insec. Insc. Menstr., iv, 110.
punctatifacies Girault. *Ibid.*, xiv, 132.

racemariæ Ashmead. Trans. Am. Ent. Soc., xiii, 134.
saundersii Packard. Butt. New Eng., 3, 1893.
semidiæ Packard. *Ibid.*, 3, 1893.
sobrius Gahan. Ann. Ent. Soc. Am., xii, 166.
theclæ Packard. Butt. New Eng., 3, 1893.
turionum Hartig. Parasite of European pine shoot moth liberated in Connecticut.
xanthomelænæ Rondani. Bull. Soc. Ent. Ital., 2, 16. Egg parasite of elm leaf beetle liberated in Connecticut.
sp.

Gyrolasia Foerster.

sp.

Aprostocetus Westwood.

sp.

Euplectrus Westwood.

comstockii Howard. Conn. Geol. Nat. Hist. Surv., Bull. 22, 467.

Diglyphomorpha Ashmead.

sp.

Miotropis Thomson.

clisiocampæ Ashmead. Trans. Am. Ent. Soc., xxi, 341.

Cirrospilus Westwood.

ocellatus Girault. Proc. U. S. Nat. Mus., 53, no. 2213, 446.
falvicinctus Riley. Ann. Rpt. Insects of N. Y., 1882, 159.
sp.

Closterocerus Westwood.

utahensis Crawford. Proc. U. S. Nat. Mus., 43, 175.

Scotolinx Ashmead.

sp.

Elachertus Spinola.

marylandicus Girault. *Pirene marylandica.* Can. Ent., xlviii, 116.

Sympiesis Foerster.

agromyzæ Gahan. Proc. U. S. Nat. Mus., 46, 440.
felti Crawford. *Ibid.*, 40, 448.
lineaticoxa Girault. Soc. Ent. Stuttgart, 31, 37.
substigmatus Girault. Proc. U. S. Nat. Mus., 53, 447.
spp. 2

Dimmockia Ashmead.

incongrua Ashmead. *Eulophus*. Proc. Wash. Ent. Soc., iv, 158.

Comedo Schrank.

anomacerus Crawford. Proc. U. S. Nat. Mus., 43, 92.
sp. (new)

Family TRICHOGRAMMIDÆ.

Trichogramma Westwood.

cuproctidis Girault. Trans. Am. Ent. Soc., xxxvii, 46.
minutum Riley. Conn. Geol. Nat. Hist. Surv., Bull. 22, 450.
prètiosa Riley. Can. Ent., ii, 161.

Family MYRMARIDÆ.

Oöctonus Haliday.

fuscipes Whittaker. Proc. Wash. Ent. Soc., 33, 189.

Anagrus Haliday.

armatus (Ashmead). *Lilus armatus*. Can. Ent., xix, 193.

Family PSAMMOCHARIDÆ.

Pseudagenia Kohl.

caliptera Cresson. Conn. Geol. Nat. Hist. Surv., Bull. 22, 627.

Pompiloides Radoszkowski.

americanus (Beauvais). Conn. Geol. Nat. Hist. Surv., Bull. 22, 631.

Arachnophroctonus Ashmead.

ferrugineus (Say). Trans. Am. Ent. Soc., i, 107.

Family VESPIDÆ.

Vespula Thomson.

arenaria Fabricius. (*diabolica* of Check-List.) Ent. Amer., xii, 83, 85.
adulterina Buysson var. **arctica** Rohwer. *Ibid.*, xii, 84, 85.
maculifrons Buysson. (=*germanica* Fabricius of Check-List.) *Ibid.*, xii, 81.
norwegica Fabricius var. **norwegicoides** Sladen. *Ibid.*, xii, 83.

rufa Linnæus var. **consobrina** Saussure. (=*consobrina* of Check-List). *Ibid.*, xii, 79, 82.
rufa Linnæus var. **vidua** Saussure. *Ibid.*, xii, 80, 81.
vulgaris Linnæus. *Ibid.*, xii, 80, 82.

Family EUMENIDAE.

Eumenes Fabricius.

globulus Saussure. Bull. Brook. Ent. Soc., xxxiii, 62.
verticalis Say. *Ibid.*, xxxiii, 64.

Odynerus Latreille.

hidalgo Saussure var. **boreo-orientalis** Bequært. Pan-Pacific Ent., xiii, 12.

Family CHRYSIDIDÆ.

Chrysis Linnæus.

hilaris Dahlbom. Conn. Geol. Nat. Hist. Surv., Bull. 22, 604.
nortoni Aaron. *Ibid.*, Bull. 22, 604.
pacifica Say. Trans. Am. Ent. Soc., vii, 239.
pellucidula Aaron. *Ibid.*, xii, 235.

Family TIPHIIDÆ (SCOLIIDÆ).

Tiphia Fabricius.

aterrima Malloch. Ill. St. Nat. Hist. Surv., Bull. 13, 19.
bicarinata Cameron. Introduced as a parasite of the Japanese beetle.
clypeata Robertson. Trans. Am. Ent. Soc., xxvii, 196.
hollowayi Allen. *Ibid.*, lx, 303.
popilliavora Rohwer. Introduced as a parasite of the Japanese beetle.
robertsoni Malloch. Ill. St. Nat. Hist. Surv., Bull. xiii, Art.1, 23.
transversa Say. Compl. Writ., 1, 385.
vernalis Rohwer. Introduced as a parasite of the Japanese beetle.
sp.

Family MUTILLIDÆ.

Pseudomethoca Ashmead.

sanbornii Blake. Proc. U. S. Nat. Mus., 64, Art. 15, 36.

Dasymutilla Ashmead.

bexar Blake. U. S. Nat. Mus., Bull. 143, 62.

carniceps Fox. *Ibid.*, Bull. 143, 185.

cypris Blake of Check-List should be omitted.

interrupta Banks. U. S. Nat. Mus., Bull. 143, 160.

lepeletierii Fox. (*ferrugata* of Check-List). *Ibid.*, Bull. 143, 132.

macra Cresson of Check-List should be omitted.

permista Mickel. U. S. Nat. Mus., Bull. 143, 189.

rubricosa Mickel. *Ibid.*, Bull. 143, 192.

rugulosa Fox. *Ibid.*, Bull. 143, 187.

sparsa Fox. *Ibid.*, Bull. 143, 88.

sparsa var. **segregata** Rohwer. *Ibid.*, Bull. 143, 93.

Timulla Ashmead.

dubitatiformis Mickel. Ent. Amer., xvii, 102.

vagans Fabricius subsp. **vagans** Fabricius. *Ibid.*, xvii, 65. This includes *hexagona* Say and *ornativentris* Cresson of Check-List, which should be omitted.

Ephuta Say.

pauxilla Bradley. Trans. Am. Ent. Soc., xlii, 197.

scrupea Say of Check-List should be omitted.

Family FORMICIDÆ.

Myrmica Latreille.

punctiventris Roger subs. **pinetorum** Wheeler? Bull. Am. Mus. Nat. Hist., xxi, 384.

Camponotus Mayr.

caryæ Fitch. *fallax* Nylander var. *nearcticus* Emery of Check-List. Conn. Geol. Nat. Hist. Surv., Bull. 22, 600.

caryæ var. **minutus** Emery. Jour. N. Y. Ent. Soc., xviii, 224.

Family AMPULICIDÆ.

Rhinopsis Westwood.

canaliculata Say. Conn. Geol. Nat. Hist. Surv., Bull. 22, 651.

Family SPHECIDÆ.

Psenulus Kohl.

trisulcus Fox. Conn. Geol. Nat. Hist. Surv., Bull. 22, 658.

Crabro Fabricius.

impressifrons Smith. Conn. Geol. Nat. Hist. Surv., Bull. 22, 671.
monticola Packard. *Ibid.*, Bull. 22, 670.
sulcus Fox. *Ibid.*, Bull. 22, 671.

Chlorion Latreille.

atratum LePeletier. *Prionony x.* Conn. Geol. Nat. Hist. Surv., Bull. 22, 679.

Sphex Linnæus.

placidus placidus F. Smith. *extremitata* Cresson var. *pictipennis* Walsh. Fernald, N. A. Sphex, 59.
urnarius (Dahlbom). Ann. Ent. Soc. Am., xxxi, 30. (A.B.C.)
violaceipennis LePeletier. *Podalonia.* Proc. U. S. Nat. Mus., 71, Art. 9, 30.

Pemphredon Latreille.

concolor Provancher. Conn. Geol. Nat. Hist. Surv., Bull. 22, 690.

Cerceris Latreille.

bicornuta Guerin. Proc. Phila. Ent. Soc., v, 117.

Family COLLETIDÆ.

Colletes Latreille.

americanus Cresson. Conn. Geol. Nat. Hist. Surv., Bull. 22, 741.
armatus Patton. Bull. U. S. Geol. Surv., v, 365.

Family HALICTIDÆ.

Halictus Latreille.

basilicus Sandhouse. *Chloralictus.* Proc. U. S. Nat. Mus., 65, Art. 19, 36.
consonus Sandhouse. *Chloralictus. Ibid.*, 65, Art. 19, 30.
oblongus Lovell. *Ibid.*, 65, Art. 19, 7, 43.
pruinosus Robertson. Conn. Geol. Nat. Hist. Surv., Bull. 22, 706.

Andrena Fabricius.

frigida Smith. Trans. Am. Ent. Soc., xxix, 256.
platyparia Robertson. *Ibid.*, xxix, 250.
sp.

Macropis Panzer.

morsei Patton. Conn. Geol. Nat. Hist. Surv., Bull. 22, 721.

Family NOMADIDÆ.

Nomada Fabricius.

articulata Smith. Proc. Phila. Ent. Soc., ii, 297.
bella Cresson. *Ibid.*, ii, 287.
bisignata Say. Conn. Geol. Nat. Hist. Surv., Bull. 22, 725.
cuneata Robertson var. **notata** Robertson. *Ibid.*, Bull. 22, 723.
cuneata var. **octonotata** Robertson. *Ibid.*, Bull. 22, 723.
cuneata var. **quadrisignata** Robertson. *Ibid.*, Bull. 22, 723.
electa Cresson. Proc. Phila. Ent. Soc., ii, 290.
luteola LePeletier. *Ibid.*, ii, 282.
maculata Cresson. *Ibid.*, ii, 303.
perplexa Cresson. *Ibid.*, ii, 306.

Epeolus Latreille.

bifasciatus Cresson. *fumipennis.* Proc. Phila. Ent. Soc., iii, 38.

Family EUCERIDÆ.

Mellisodes Latreille.

agilis Cresson var. **aurigeniæ** Cresson. Conn. Geol. Nat. Hist. Surv., Bull. 22, 731.

Tetralonia Spinola.

fuscipes Robertson. *Synalonia fuscipes.* Trans. Am. Ent. Soc., xxxi, 367.

Family ANTHOPHORIDÆ.

Anthophora Latreille.

abrupta Say. *Anthemoessa.* Conn. Geol. Nat. Hist. Surv., Bull. 22, 737.
bomboides Kirby. *Anthemoessa.* *Ibid.*, Bull. 22, 737.

Family HYLÆIDÆ.

Hylæus Fabricius.

Prosopis Fabricius.

cressoni Cockerell. Trans. Am. Ent. Soc., xxxvii, 105.
potens (Metz). *Ibid.*, xxxvii, 103.

Family MEGACHILIDÆ.

Megachile Latreille.

campanulæ Robertson. Trans. Am. Ent. Soc., lxiii, 389.

centuncularis Linnæus. New name for *infragilis* Cresson of Check-List. *Ibid.*, lxi, 159.

gemula Cresson. *Ibid.*, lxi, 181.

melanophea Smith. *Ibid.*, lxi, 190.

montivaga Cresson. *Ibid.*, lxi, 167.

pugnata Say. Conn. Geol. Nat. Hist. Surv., Bull. 22, 745.

relativa Cresson. New name for *exclamans* Viereck of Check-List. Trans. Am. Ent. Soc., lxi, 162.

sayi Cresson. Conn. Geol. Nat. Hist. Surv., Bull. 22, 745.

texana Cresson. *generosa* Cresson. Trans. Am. Ent. Soc., lxi, 32.

Cœlioxys Latreille.

brevis Cresson. Proc. Phila. Ent. Soc., ii, 402.

lucrosa Cresson. Conn. Geol. Nat. Hist. Surv., Bull. 22, 746.
sp.

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CATALOGUE SLIPS

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169 pp., 23 cm.

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CHECK-LIST OF THE SPIDERS OF CONNECTICUT

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Benjamin J. Kaston

INTRODUCTION

The author is engaged in preparing a monograph on the spiders of Connecticut which will contain keys, descriptions and illustrations to aid in the identification of species found, or likely to be found, in this State. As there is still much to be done before the work is completed it may be some years before publication. In the meantime, the opportunity becoming available to include a check-list of species in Dr. Britton's supplement to the insect list, it was thought well to publish that as being of some value in itself.

The arrangement of the families follows that of Petrunkevitch's latest system. The genera are arranged alphabetically for each family, and the species alphabetically for each genus. A single reference to where a description may be found is given for each species, and the only synonyms indicated are those used by the authors of those descriptions to which a reference is given. In the difficult family *Micryphantidae* all of the genera established in recent years by Bishop and Crosby are used here, and practically all of the species references are to their various papers. While some may object to accepting all of these genera it must be admitted that no other workers have investigated this family so extensively. For the majority of the species in the remaining families the reference given is to J. H. Comstock's Spider Book, which, though at present out of print, still remains the most readily available general work on North American spiders.

Of the few states for which lists of spiders are available that of New York compiled by Crosby and Bishop (1928) is by far the most complete. Of course many species have been added since, but it is of interest to compare the statistics based on the 1928 list with those of the present Connecticut list. These statistics are presented in the accompanying table together with the figures for Connecticut obtained from the List of New England Spiders published by Miss E. B. Bryant in 1908. The genera of these older lists have been arranged to conform with our present concept of family groups.

Practically all of the Connecticut records in Miss Bryant's list are based upon the collecting of J. H. Emerton. The bulk of the additions since are due to the collecting efforts of the present author and his wife. A few, however, are based upon further

collecting of Emerton, of Miss Bryant, Dr. W. J. Gertsch, Messrs. H. L. Johnson, D. S. Riggs, and various workers at the Connecticut Agricultural Experiment Station.

Besides listing the statistics for Connecticut proper, figures are also given for the entire Southern New England area. This includes Massachusetts, Rhode Island, and that part of New York east of the Hudson River and south of the westward prolongation of Massachusetts' northern boundary. Any spider occurring in this area outside of Connecticut can reasonably be expected to occur within the State, and further collecting will no doubt result in many being found.

More detailed bibliographic references, synonymy, localities, dates and collectors' names are reserved for the monograph.

Family	Species and Varieties				Genera	
	New York C. & B. 1928	Conn. Bryant 1908	Conn. Present list	Southern New Eng. Present	Conn. Present list	Southern New Eng. Present
Atypidæ	1	0	0	1	0	1
Oecobiidæ	0	0	0	1	0	1
Scytodidæ	1	1	1	1	1	1
Pholcidæ	2	2	2	2	2	2
Mimetidæ	2	2	4	4	2	2
Uloboridæ	2	2	2	2	2	2
Dictynidæ	16	9	13	18	4	4
Micryphantidæ	132	41	60	133	29	50
Amaurobiidæ	5	3	3	5	2	3
Agelenidæ	18	6	15	15	6	6
Pisauridæ	9	4	9	9	2	2
Lycosidæ	47	24	39	41	7	7
Oxyopidæ	2	0	2	2	1	1
Theridiidæ	51	25	34	52	18	22
Linyphiidæ	40	13	15	25	8	11
Argiopidæ	58	37	50	62	19	24
Ctenidæ	1	0	1	1	1	1
Thomisidæ	38	19	34	44	12	12
Gnaphosidæ	26	7	22	35	11	13
Clubionidæ	31	9	30	42	9	9
Salticidæ	57	27	46	55	23	25
Segestriidæ	1	1	1	1	1	1
Dysderidæ	1	0	1	1	1	1
Oonopidæ	1	0	1	1	1	1
Hahniidæ	4	2	3	4	2	3
Anyphænidæ	5	4	5	7	3	4
Totals	551	238	393	564	167	209

Order ARANEÆ.

Spiders

Family SCYTODIDÆ.

Scytodes Latreille 1804.

thoracica (Latreille) 1804. Spitting spider. Comstock 1912 Spider Book, p. 306.

Family PHOLCIDÆ.

Pholcus Walckenaer 1805.

phalangioides (Fuesslin) 1775. Long-bodied cellar spider. Comstock 1912 Spider Book, p. 328.

Spermophora Hentz 1841.

meridionalis Hentz 1841. Short-bodied cellar spider. Comstock 1912 Spider Book, p. 328.

Family MIMETIDÆ.

Ero C. L. Koch 1837.

furcata (Villers) 1789. Comstock 1912 Spider Book, p. 520.

Mimetus Hentz 1832.

epeiroides Emerton 1882. Chamberlin 1923 J. Ent. Zool. Pomona Coll., xv: 6.

interfector Hentz 1850. Comstock 1912 Spider Book, p. 519.

puritanus Chamberlin 1923. J. Ent. Zool. Pomona Coll., xv: 5.

Family ULOBORIDÆ.

Hyptiotes Walckenaer 1833.

cavatus (Hentz) 1847. Triangle spider. Comstock 1912 Spider Book, p. 270.

Uloborus Latreille 1806.

americanus Walckenaer 1841. Feather-legged spider. Comstock 1912 Spider Book, p. 264.

Family DICTYNIDÆ.

Argenna Thorell 1870.

obesa Emerton 1911. Trans. Connecticut Acad. Sci., xvi : 399.

Dictyna Sundevall 1833.

cruciata Emerton 1888. Trans. Connecticut Acad. Sci., vii: 448.
foliacea (Hentz) 1850. Comstock 1912 Spider Book, p. 284.
frondea Emerton 1888. Trans. Connecticut Acad. Sci., vii : 449.
longispina Emerton 1888. *Ibid.*, p. 446.
minuta Emerton 1888. *Ibid.*, p. 447.
rubra Emerton 1888. *Ibid.*, p. 448.
sublata (Hentz) 1850. Comstock 1912 Spider Book, p. 281.
volucripes Keyserling 1881. *Ibid.*, p. 284.
species 1.
species 2.

Lathys Simon 1884.

foxii (Marx) 1891. Comstock 1912 Spider Book, p. 279.

Scotolathys Simon 1884.

pallida (Marx) 1891. Comstock 1912 Spider Book, p. 287.

Family MICRYPHANTIDÆ (Dwarf spiders).

Catabrithorax Chamberlin 1920.

plumosus (Emerton) 1882. Crosby & Bishop 1928 New York St. Mus. Bull., No. 278 : 70.

Ceraticelus Simon 1884.

atriceps (O. P.-Cambridge) 1874. Bishop & Crosby 1925 New York St. Mus. Bull., No. 264 : 15.
bulbosus (Emerton) 1882. *Ibid.*, p. 16.
emertoni (O. P.-Cambridge) 1874. *Ibid.*, p. 20.
fissiceps (O. P.-Cambridge) 1874. *Ibid.*, p. 22.
formosus (Banks) 1892. *Ibid.*, p. 25.
lætabilis (O. P.-Cambridge) 1874. *Ibid.*, p. 26.
minutus (Emerton) 1882. *Ibid.*, p. 34.
pygmæus (Emerton) 1882. *Ibid.*, p. 41.
rugosus Crosby 1905. Crosby 1937 Entom. News, xlviii : 165.

Ceratinella Emerton 1882.

brunnea Emerton 1882. Bishop & Crosby 1925 New York St. Mus. Bull., No. 264 : 7.

Ceratinops Banks 1905.

crenata (Emerton) 1882. Crosby & Bishop 1933 Ann. Ent. Soc. America, xxvi : 111.

lata (Emerton) 1882. *Ibid.*, p. 114.

Ceratinopsidis Bishop & Crosby 1930.

formosa (Banks) 1892. Crosby & Bishop 1930 J. New York Ent. Soc., xxxviii : 29.

Ceratinopsis Emerton 1882.

interpres (O. P.-Cambridge) 1874. Bishop & Crosby 1930 J. New York Ent. Soc., xxxviii : 19.

laticeps Emerton 1882. *Ibid.*, p. 21.

nigriceps Emerton 1882. *Ibid.*, p. 22.

nigripalpis Emerton 1882. *Ibid.*, p. 23.

purpurescens (Keyserling) 1886. *Ibid.*, p. 25.

Cochlembolus Crosby 1929.

pallidus (Emerton) 1882. Crosby & Bishop 1933 Ann. Ent. Soc. America, xxvi : 168.

vernalis (Emerton) 1882. Crosby 1929 Entom. News, xl : 82.

Cornicularia Menge 1869.

brevicornis Emerton 1882. Crosby & Bishop 1931 J. New York Ent. Soc., xxxix : 363.

communis Emerton 1882. *Ibid.*, p. 366.

directa (O. P.-Cambridge) 1874. *Ibid.*, p. 367.

indirecta (O. P.-Cambridge) 1874. *Ibid.*, p. 370.

minuta Emerton 1882. *Ibid.*, p. 371.

pallida Emerton 1882. *Ibid.*, p. 372.

Diplocephalus Bertkau 1883.

cristatus (Blackwall) 1833. Bishop & Crosby 1935 J. New York Ent. Soc., xliii : 239.

Eperigone Crosby & Bishop 1928.

maculata (Banks) 1892. Crosby & Bishop 1928 New York St. Mus. Bull., No. 278 : 54.

tridentata (Emerton) 1882. *Ibid.*, p. 59.

trilobata (Emerton) 1882. *Ibid.*, p. 61.

Eridantes Crosby & Bishop 1933.

erigonoides (Emerton) 1882. Crosby & Bishop 1933 Ann. Ent. Soc. America, xxvi : 146.

Erigone Audouin 1826.

atra Blackwall 1833. Crosby & Bishop 1928 New York St. Mus. Bull., No. 278 : 15.

autumnalis Emerton 1882. *Ibid.*, p. 19.

dentigera O. P.-Cambridge 1874. *Ibid.*, p. 25.

Floricomus Bishop & Crosby 1925.

rostratus (Emerton) 1882. Bishop & Crosby 1935 J. New York Ent. Soc., xliii : 40.

Gonatium Menge 1868.

rubens (Blackwall) 1833. Bishop & Crosby 1935 J. New York Ent. Soc., xliii : 255.

Grammonota Emerton 1882.

capitata Emerton 1924. Psyche, xxxi : 141.

inornata Emerton 1882. Bishop & Crosby 1932 J. New York Ent. Soc., xl : 397.

ornata (O. P.-Cambridge) 1875. *Ibid.*, p. 403.

pictilis (O. P.-Cambridge) 1875. *Ibid.*, p. 406.

trivittata Banks 1895. *Ibid.*, p. 411.

Hypselistes Simon 1894.

florens (O. P.-Cambridge) 1875. Crosby & Bishop 1933 Ann. Ent. Soc. America, xxvi : 133.

Islandiana Braendegaard 1932.

longisetosa (Emerton) 1882. *Aduva.* Bishop & Crosby 1936 Proc. Biol. Soc. Washington, xlix : 41.

Microneta Menge 1869.

cornupalpis (O. P.-Cambridge) 1875. Emerton 1882 Trans. Connecticut Acad. Sci., vi : 74.

latidens Emerton 1882. *Ibid.*, p. 76.

multesima (O. P.-Cambridge) 1875. *discolor. Ibid.*, p. 75.

persoluta (O. P.-Cambridge) 1875. *Ibid.*, p. 74.

viaria (Blackwall) 1841. *Ibid.*, p. 73.

Minyriolus Simon 1884.

arenarius (Emerton) 1911. Crosby & Bishop 1933 Ann. Ent. Soc. America, xxvi : 136.

Mythoplastoides Crosby & Bishop 1933.

exiguus (Banks) 1892. Crosby & Bishop 1933 Ann. Ent. Soc. America, xxvi : 145.

Oedothorax Bertkau 1883.

probatus (O. P.-Cambridge) 1874. Comstock 1912 Spider Book, p. 373.

Origanates Crosby & Bishop 1933.

rostratus (Emerton) 1882. Crosby & Bishop 1933 Ann. Ent. Soc. America, xxvi : 154.

Pelecopsis Simon 1864.

moestum (Banks) 1892. Crosby & Bishop 1931 J. New York Ent. Soc., xxxix : 385.

Sciastes Bishop & Crosby 1938.

concavus (Emerton) 1882. Bishop & Crosby 1938 J. New York Ent. Soc., xlvi : 76.

Scolopembolus Bishop & Crosby 1938.

littoralis (Emerton) 1913. Bishop & Crosby 1938 J. New York Ent. Soc., xlvi : 63.

Scylaceus Bishop & Crosby 1938.

pallidus (Emerton) 1882. Bishop & Crosby 1938 J. New York Ent. Soc., xlvi : 91.

Soulgas Crosby & Bishop 1936.

corticarius (Emerton) 1909. *Tmeticus*. Trans. Connecticut Acad. Sci., xiv : 194.

Walckenaëra Blackwall 1833.

vigilax (Blackwall) 1853. Crosby & Bishop 1931 J. New York Ent. Soc., xxxix : 378.

Wubana Chamberlin 1919.

drassoides (Emerton) 1882. Bishop & Crosby 1934 J. New York Ent. Soc., xlii : 215.

Family AMAUROBIIDÆ.

Amaurobius C. L. Koch 1837.

bennetti (Blackwall) 1846. Comstock 1912 Spider Book, p. 277.

ferox (Walckenaer) 1837. *Ibid.*, p. 278.

Titanœca Thorell 1870.

americana Emerton 1888. *Amaurobius*. Comstock 1912 Spider Book, p. 279.

Family AGELENIDÆ (Funnel-web weavers).

Agelena Walckenaer 1805. (Grass spiders).

emertoni (Chamberlin & Ivie) 1935. Comstock 1912 Spider Book, (in part, under *naevia*), p. 586.

nævia Walckenaer 1805. Large black funnel weaver. *Ibid.*, (in part), p. 586.

pen[n]sylvanica C. L. Koch 1843. Gray speckled funnel weaver. *Ibid.*, (in part, under *naevia*), p. 586.

potteri Blackwall 1846. *Ibid.*, (in part, under *naevia*), p. 586.

utahana Chamberlin & Ivie 1933. *Ibid.*, (in part, under *naevia*), p. 586.

Cicurina Menge 1871.

brevis (Emerton) 1889. Emerton 1909 Trans. Connecticut Acad. Sci., xiv: 221.

pallida Keyserling 1887. *Ibid.*, p. 222.

robusta Simon 1886. *arcuata*. Comstock 1912 Spider Book, p. 596.

Coras Simon 1898.

juvenilis (Keyserling) 1881. *Coelotes fidelis*. Comstock 1912 Spider Book, p. 595.

medicinalis (Hentz) 1821. *Ibid.*, p. 592.

montanus (Emerton) 1890. *Coelotes*. Trans. Connecticut Acad. Sci., viii : 192.

Cryphœca Thorell 1870.

montana Emerton 1909. Comstock 1912 Spider Book, p. 597.

Tegenaria Latreille 1804.

domestica (Clerck) 1757. *derhami*. Comstock 1912 Spider Book, p. 593.

Wadotes Chamberlin 1925.

hybridus (Emerton) 1890. *Coelotes*. Trans. Connecticut Acad. Sci., viii : 193.

calcaratus (Keyserling) 1887. *Tegenaria* (*Caelotes*) *longitarsus*. Emerton 1902 Common Spiders, p. 102.

Family PISAURIDÆ (Nursery web weavers).

Dolomedes Latreille 1804. (Giant fishing spiders).

striatus Giebel 1869. Bishop 1924 New York St. Mus. Bull., No. 252 : 57.

scriptus Hentz 1845. *Ibid.*, p. 44.

tenebrosus Hentz 1844. *Ibid.*, p. 40.

triton sexpunctatus Hentz 1845. *Ibid.*, p. 52.

urinator Hentz 1845. *Ibid.*, p. 36.

vittatus Walckenaer 1837. *Ibid.*, p. 47.

Pisaurina Simon 1898.

brevipes (Emerton) 1911. Bishop 1924 New York St. Mus. Bull., No. 252 : 29.

mira (Walckenaer) 1837. *Ibid.*, p. 23.

mira var. **subinflata** (Hentz) 1850. *Ibid.*, p. 25.

Family LYCOSIDÆ (Wolf spiders).

Arctosa C. L. Koch 1848.

emertoni Gertsch 1934. American Mus. Nov., No. 693 : 5.

funerea (Hentz) 1844. *Lycosa.* Emerton 1913 Trans. Connecticut Acad. Sci., xviii : 220.

litoralis (Hentz) 1844. *Lycosa.* Comstock 1912 Spider Book, p. 641.

rubicunda (Keyserling) 1876. *Lycosa. Ibid.*, p. 640.

species 1.

Geolycosa Montgomery 1904. (Burrowing wolf spiders).

nidifex (Marx) 1881. *Lycosa.* Emerton 1912 Psyche, xix : 31.

pikei (Marx) 1881. *Lycosa. Ibid.*, p. 29.

Lycosa Latreille 1804.

aspersa Hentz 1844. Comstock 1912 Spider Book, p. 634.

avara (Keyserling) 1876. *Ibid.*, p. 640.

avida Walckenaer 1837. *erratica. Ibid.*, p. 637.

baltimoriana (Keyserling) 1876. Emerton 1909 Trans. Connecticut Acad. Sci., xiv : 203.

carolinensis Walckenaer 1837. Comstock 1912 Spider Book, p. 636.

frondicola Emerton 1885. *Ibid.*, p. 639.

gulosa Walckenaer 1837. *Ibid.*, p. 639.
helluo Walckenaer 1837. *Ibid.*, p. 633.
modesta (Keyserling) 1876. *Tarentula.* Verh. Zoo.-Bot. Ges. Wien, xxvi : 626.
pratensis Emerton 1885. Comstock 1912 Spider Book, p. 638.
punctulata Hentz 1844. *Ibid.*, p. 637.
rabida Walckenaer 1837. *scutulata. Ibid.*, p. 637.

Pardosa C. L. Koch 1848. (Thin-legged wolf spiders).
distincta (Blackwall) 1846. *emertoni.* Comstock 1912 Spider Book, p. 657.
floridana Banks 1904. *banksi.* Chamberlin 1908 Proc. Acad. Nat. Sci. Philadelphia, lx : 182.
lapidicina Emerton 1885. Comstock 1912 Spider Book, p. 655.
milvina (Hentz) 1844. *Ibid.*, p. 654.
modica (Blackwall) 1846. *modica brunnea. Ibid.*, p. 657.
moesta Banks 1892. *diffusa.* Emerton 1909 Trans. Connecticut Acad. Sci., xiv : 208.
saxatilis (Hentz) 1844. Comstock 1912 Spider Book, p. 653.
saxatilis var. **atlantica** Emerton 1913. *atlantica.* Bull. American Mus. Nat. Hist., xxxii : 258.
xerampelina (Keyserling) 1876. *montana.* Emerton 1885 Trans. Connecticut Acad. Sci., vi :498.

Pirata Sundevall 1833.
arenicola Emerton 1909. *aspirans.* Comstock 1912 Spider Book, p. 643 (in part, ♂ not ♀).
insularis Emerton 1885. *Ibid.*, p. 645 (in part, ♂ not ♀).
maculatus Emerton 1909. Kaston 1938 Canadian Ent., lxx : 16.
marxi Stone 1890. Comstock 1912 Spider Book, p. 644.
minutus Emerton 1885. *Ibid.*, p. 643.
montanus Emerton 1885. *Ibid.*, p. 644.
piratica (Clerck) 1757. *febriculosus. Ibid.*, p. 645.

Schizocosa Chamberlin 1904.
bilineata (Emerton) 1885. Comstock 1912 Spider Book, p. 648.
crassipes (Walckenaer) 1837. *ocreata. Ibid.*, p. 648.
saltatrix (Hentz) 1844. *Ibid.*, p. 648.

Trabea Simon 1876.
aurantiaca (Emerton) 1885. Comstock 1912 Spider Book, p.649.

Family OXYOPIDÆ (Sharp-eyed spiders).

Oxyopes Latreille 1804.

salticus Hentz 1845. Comstock 1912 Spider Book, p. 660.
scalaris Hentz 1845. *Ibid.*, p. 660.

Family THERIDIIDÆ (Comb-footed spiders).

Ancylorrhanis Simon 1894.

hirsutum (Emerton) 1882. Comstock 1912 Spider Book, p. 368.

Argyrodina Strand 1928.

cancellatus (Hentz) 1850. *Argyrodes.* Emerton 1909 Trans. Connecticut Acad. Sci., xiv : 184.
trigonum (Hentz) 1850. *Argyrodes.* Comstock 1912 Spider Book, p. 338.

Asagena Sundevall 1833.

americana Emerton 1882. Comstock 1912 Spider Book, p. 364.

Crustulina Menge 1868.

guttata (Wider) 1834. Comstock 1912 Spider Book, p. 360.

Dipœna Thorell 1869.

buccalis Keyserling 1886. Comstock 1912 Spider Book, p. 356.
nigra (Emerton) 1882. *Ibid.*, p. 357.

Enoplognatha Pavesi 1880.

marmorata (Hentz) 1850. Comstock 1912 Spider Book, p. 364.

Euryopis Menge 1868.

argentea Emerton 1882. Comstock 1912 Spider Book, p. 344.
funebris (Hentz) 1850. *Ibid.*, p. 344.

Latrodectus Walckenaer 1805.

mactans (Fabricius) 1775. Black widow spider. Comstock 1912 Spider Book, p. 357.

Lithyphantes Thorell 1869.

albomaculatus (De Geer) 1778. *corollatus.* Comstock 1912 Spider Book, p. 362.

Paidisca Bishop & Crosby 1926.

marxi (Crosby) 1906. Bishop & Crosby 1926 J. Elisha Mitchell Sci. Soc., xli : 179.

Rhomphæa L. Koch 1872.

fictilium (Hentz) 1850. *Ariamnes.* Comstock 1912 Spider Book, p. 337.

Robertus Cambridge 1879.

riparius (Keyserling) 1886. *Pedanostethus.* Comstock 1912 Spider Book, p. 365.

Spintharus Hentz 1850.

flavidus Hentz 1850. Comstock 1912 Spider Book, p. 341.

Steatoda Sundevall 1833.

borealis (Hentz) 1850. Comstock 1912 Spider Book, p. 360.

Teutana Simon 1881.

grossa (C. L. Koch) 1838. Emerton 1911 Trans. Connecticut Acad. Sci., xvi : 387.

triangulosa (Walckenaer) 1802. Comstock 1912 Spider Book, p. 361.

Theridion Walckenaer 1805.

differens Emerton 1882. Comstock 1912 Spider Book, p. 352.

frondeum Hentz 1850. *Ibid.*, p. 347.

globosum Hentz 1850. *Ibid.*, p. 348.

kentuckyense Keyserling 1884. *Ibid.*, p. 349.

murarium Emerton 1882. *Ibid.*, p. 353.

ovatum (Clerck) 1757. *lineatum.* Emerton 1882 Trans. Connecticut Acad. Sci., vi : 16.

pennsylvanicum Emerton 1913. Bull. American Mus. Nat. Hist., xxxii : 255.

punctosparsum Emerton 1882. Comstock 1912 Spider Book, p. 350.

rupicola Emerton 1882. *Ibid.*, p. 347.

spirale Emerton 1882. *Ibid.*, p. 354.

tepidariorum C. L. Koch 1841. House spider. *Ibid.*, p. 345.

unimaculatum Emerton 1882. *Ibid.*, p. 349.

zelotypum Emerton 1882. *Ibid.*, p. 350.

Theridula Emerton 1882.

opulenta (Walckenaer) 1841. Comstock 1912 Spider Book, p. 355.

Ulesanis L. Koch 1872.

americana Emerton 1882. Comstock 1912 Spider Book, p. 356.

Family LINYPHIIDÆ (Sheet-web weavers).

Bathyphantes Menge 1866.

angulatus Emerton 1882. Trans. Connecticut Acad. Sci., vi :71.

formica Emerton 1882. *Ibid.*, p. 71.

micaria Emerton 1882. *Ibid.*, p. 71.

Drapetisca Menge 1866.

alteranda Chamberlin 1909. Comstock 1912 Spider Book, p. 380.

Frontinella F. O. P.-Cambridge 1902.

communis (Hentz) 1850. Bowl and doily spider. *Linyphia*. Comstock 1912 Spider Book, p. 386.

Lepthyphantes Menge 1866.

leprosa (Ohlert) 1865. *minutus*. Comstock 1912 Spider Book, p. 380.

nebulosus (Sundevall) 1830. *Ibid.*, p. 380.

zebra (Emerton) 1882. Zorsch 1937 American Midl. Nat., xviii : 887.

Linyphia Latreille 1804.

clathrata Sundevall 1830. *Neriene*. Comstock 1912 Spider Book, p. 384.

maculata Emerton 1909. Trans. Connecticut Acad. Sci., xiv : 195.

marginata C. L. Koch 1834. Filmy dome spider. Comstock 1912 Spider Book, p. 390.

pusilla Sundevall 1830. Platform spider. *Ibid.*, p. 398.

Pityohyphantes Simon 1929.

phrygianus (C. L. Koch) 1836. Hammock spider. *Linyphia*. Comstock 1912 Spider Book, p. 394.

Stemonyphantes Menge 1866.

lineatus (Linnæus) 1758. *Linyphia*. Comstock 1912 Spider Book, p. 388.

Stylophora Menge 1866.

concolor (Wider) 1834. *Bathyphantes*. Comstock 1912 Spider Book, p. 379.

Family ARGIOPIDÆ (Orb weavers).

Acacesia Simon 1895.

foliata (Hentz) 1847. Comstock 1912 Spider Book, p. 510.

Acanthepeira[1] Marx 1883.

stellata (Walckenaer) 1805. Star-bellied spider. *Marxia.* Comstock 1912 Spider Book, p. 456.

Araneus Clerck 1757.[2]

angulatus Clerck 1757. *Aranea.* Comstock 1912 Spider Book, p. 469 (in part).

cavaticus (Keyserling) 1881. *Aranea. Ibid.*, p. 470.

nordmani (Thorell) 1870. *Aranea. Ibid.*, p. 470.

solitarius (Emerton) 1884. *Aranea angulata. Ibid.*, p. 469 (in part).

Argiope Audouin 1827.

aurantia Lucas 1833. Black and orange garden spider. *Miranda.* Comstock 1912 Spider Book, p. 434.

trifasciata (Forskål) 1775. Banded garden spider. *Metargiope. Ibid.*, p. 438.

Cyclosa Menge 1866.

conica (Pallas) 1772. Bird dung spider. Comstock 1912 Spider Book, p. 451.

turbinata (Walckenaer) 1841. *Ibid.*, p. 454.

Epeira Walckenaer 1805.[3]

attestor (Petrunkevitch) 1911. *alboventris.* Emerton 1884 Trans. Connecticut Acad. Sci., vi : 314.

cornuta (Clerck) 1757. Furrow spider. *Aranea frondosa.* Comstock 1912 Spider Book, p. 487.

cucurbitina (Clerck) 1757. *Aranea displicata. Ibid.*, p. 494.

juniperi Emerton 1884. Trans. Connecticut Acad. Sci., vi : 313.

marmorea (Clerck) 1757. *Aranea gigas.* Comstock 1912 Spider Book, p. 475.

patagiata (Clerck) 1757. *Aranea ocellata. Ibid.*, p. 489.

pegnia Walckenaer 1841. *Aranea. Ibid.*, p. 494.

sericata (Clerck) 1757. Gray cross spider. *Aranea. Ibid.*, p. 486.

thaddeus Hentz 1847. Lattice spider. *Aranea. Ibid.*, p. 490.

trifolium Hentz 1847. Shamrock spider. *Aranea. Ibid.*, p. 479.

Eustala Simon 1895.

anastera (Walckenaer) 1841. Comstock 1912 Spider Book, p. 511.

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[1] Concerning the use of this name see Kaston 1938 Entom. News, xlix: 258-259.
[2] See also *Epeira.*
[3] See also *Araneus.*

Leucauge White 1841.

venusta (Walckenaer) 1841. Orchard spider. Comstock 1912 Spider Book, p. 422.

Mangora O. P.-Cambridge 1889.

gibberosa (Hentz) 1847. Hunch-backed spider. Comstock 1912 Spider Book, p. 505.

maculata (Keyserling) 1865. *Ibid.*, p. 507.

placida (Hentz) 1847. *Ibid.*, p. 505.

Mastophora Holmberg 1876.

bisaccata (Emerton) 1884. *Glyptocranium.* Comstock 1912 Spider Book, p. 448.

Meta C. L. Koch 1836.

menardii (Latreille) 1804. Cave-dwelling orbweaver. Comstock 1912 Spider Book, p. 419.

Metepeira F. O. P.-Cambridge 1903.

labyrinthea (Hentz) 1847. Comstock 1912 Spider Book, p. 462.

Micrathena Sundevall 1833. (Spiny-bellied orbweavers).

gracilis (Walckenaer) 1841. Comstock 1912 Spider Book, p. 516.

reduviana (Walckenaer) 1841. Mitred spider. *Ibid.*, p. 517.

sagittata (Walckenaer) 1841. *Ibid.*, p. 514.

Neoscona Simon 1864.

arabesca (Walckenaer) 1841. Comstock 1912 Spider Book, p.497.

benjamina (Walckenaer) 1841. Domicile orbweaver. *Ibid.*, p. 498.

pratensis (Hentz) 1847. *Ibid.*, p. 502.

Pachygnatha Sundevall 1823. (Thick-jawed spiders).

autumnalis Keyserling 1883. Emerton 1884 Trans. Connecticut Acad. Sci., vi : 337.

brevis Keyserling 1882. Comstock 1912 Spider Book, p. 408.

tristriata C. L. Koch 1845. Emerton 1909 Trans. Connecticut Acad. Sci., xiv : 202.

Singa C. L. Koch 1836.

pratensis Emerton 1884. Comstock 1912 Spider Book, p. 462.

truncata Banks 1901. *Ibid.*, p. 461.

variabilis Emerton 1884. *Ibid.*, p. 461.

Tetragnatha Latreille 1804. (Long-jawed orbweavers).

elongata Walckenaer 1805. Stilt-legged spider. Comstock 1912 Spider Book, p. 411.

extensa (Linnæus) 1758. *Ibid.*, p. 411.

laboriosa Hentz 1850. *Ibid.*, p. 412.

pallescens F. O. P.-Cambridge 1903. *pallidula. Ibid.*, p. 415.

pinea Seeley 1928. *pinicola.* Emerton 1915 Trans. Connecticut Acad. Sci., xx : 139.

seneca Seeley 1928. New York St. Mus. Bull., No. 278 : 134.

straminea Emerton 1884. Comstock 1912 Spider Book, p. 414.

vermiformis Emerton 1884. *Ibid.*, p. 414.

Theridiosoma O. P.-Cambridge 1879.

gemmosum (L. Koch) 1877. Ray spider. *radiosa.* Comstock 1912 Spider Book, p. 402.

Wixia O. P.-Cambridge 1882.

ectypa (Walckenaer) 1841. Comstock 1912 Spider Book, p. 467.

Family CTENIDÆ.

Zora C. L. Koch 1848.

pumila (Hentz) 1850. Comstock 1912 Spider Book, p. 573.

Family THOMISIDÆ (Crab spiders).

Coriarachne Thorell 1870.

versicolor Keyserling 1880. Comstock 1912 Spider Book, p. 531.

Ebo Keyserling 1883.

latithorax Keyserling 1883. Comstock 1912 Spider Book, p. 547.

Misumena Latreille 1804.

vatia (Clerck) 1757. Comstock 1912 Spider Book, p. 526.

Misumenoides F. O. P.-Cambridge 1900.

aleatorius (Hentz) 1847. *Misumena.* Comstock 1912 Spider Book, p. 527.

Misumenops F. O. P.-Cambridge 1900.

asperatus (Hentz) 1847. *Misumessus.* Comstock 1912 Spider Book, p. 530.

oblongus (Keyserling) 1880. *Misumena.* Emerton 1892 Trans. Connecticut Acad. Sci., viii : 371.

Ozyptila Simon 1864.

americana Banks 1895. Bryant 1930 Psyche, xxxvii : 377.

conspurcata Thorell 1877. *Ibid.*, p. 379.

monroensis Keyserling 1883. *Ibid.*, p. 385.

species 1.

Philodromus Walckenaer 1825.

aureolus (Clerck) 1757. *canadensis.* Emerton 1917 Canadian Ent., xlix : 270.

exilis Banks 1892. *bidentatus.* Emerton 1892 Trans. Connecticut Acad. Sci., viii : 375.

imbecillus Keyserling 1880. *lineatus. Ibid.*, p. 374.

keyserlingii Marx 1890. *obscurus.* Keyserling 1883 Verh. Zoo.-Bot. Ges. Wien, xxxiii : 675.

marxii Keyserling 1883. *ornatus.* Comstock 1912 Spider Book, p. 545.

pernix Blackwall 1846. *Ibid.*, p. 544.

rufus Walckenaer 1825. *pictus.* Emerton 1892 Trans. Connecticut Acad. Sci., viii : 373.

satullus Keyserling 1880. *minutus.* Comstock 1912 Spider Book, p. 544.

Synema Simon 1864.

bicolor Keyserling 1883. Comstock 1912 Spider Book, p. 541.

Thanatus C. L. Koch 1837.

formicinus (Clerck) 1757. *lycosoides.* Comstock 1912 Spider Book, p. 548.

striatus C. L. Koch 1845. Simon 1932 Arachnides de France, vi : 858, 885.

Tibellus Simon 1875.

duttoni (Hentz) 1847. Gertsch 1933 American Mus. Nov., No. 593 : 11.

maritimus (Menge) 1874. *Ibid.*, p. 8.

oblongus (Walckenaer) 1802. *Ibid.*, p. 3.

Tmarus Simon 1875.

angulatus (Walckenaer) 1837. Comstock 1912 Spider Book, p. 525.

Xysticus C. L. Koch 1835.

elegans Keyserling 1880. Comstock 1912 Spider Book, p. 534 (in part).

ferox (Hentz) 1847. *Ibid.*, p. 534.
fraternus Banks 1895. Bryant 1930 Psyche xxxvii : 134.
funestus Keyserling 1880. *nervosus.* Comstock 1912 Spider Book, p. 538.
graminis Emerton 1892. Trans. Connecticut Acad. Sci., viii : 364.
gulosus Keyserling 1880. Comstock 1912 Spider Book, p. 534.
luctans (C. L. Koch) 1845. *Ibid.*, p. 536.
punctatus Keyserling 1880. *formosus. Ibid.*, p. 534.
triguttatus Keyserling 1880. *Ibid.*, p. 538.

Family GNAPHOSIDÆ.

Callilepis Westring 1874.
imbecilla (Keyserling) 1887. Comstock 1912 Spider Book, p. 322.

Cesonia Simon 1893.
bilineata (Hentz) 1847. Comstock 1912 Spider Book, p. 320.

Drassodes Westring 1861.
neglectus (Keyserling) 1887. *Drassus.* Comstock 1912 Spider Book, p. 312.
robinsoni Chamberlin 1919. Kaston 1938 Bull. Brooklyn Ent. Soc., xxxiii : 178.

Drassyllus Chamberlin 1922.
femoralis (Banks) 1904. *Zelotes.* Proc. California Acad. Sci., ser. 3, iii: 336.
frigidus (Banks) 1892. *Zelotes.* Comstock 1912 Spider Book, p. 317.
niger (Banks) 1896. *Prosthesima.* Trans. American Ent. Soc., xxiii: 62.
rufulus (Banks) 1892. *Zelotes.* Comstock 1912 Spider Book, p. 316.
transversus (Emerton) 1911. *Prosthesima.* Trans. Connecticut Acad. Sci., xvi : 406.
species 1.

Geodrassus Chamberlin 1922.
auriculoides (Barrows) 1919. Kaston 1938 Bull. Brooklyn Ent. Soc., xxxiii: 175.
phanus Chamberlin 1922. *Ibid.*, p. 177.

Gnaphosa Latreille 1804.

fontinalis Keyserling 1887. Kaston 1938 Bull. Brooklyn Ent. Soc., xxxiii : 180.

muscorum (L. Koch) 1866. *gigantea.* Comstock 1912 Spider Book, p. 320.

parvula Banks 1896. Emerton 1909 Trans. Connecticut Acad. Sci., xiv : 218.

Haplodrassus Chamberlin 1922.

signifer (C. L. Koch) 1839. *Drassodes robustus.* Comstock 1912 Spider Book, p. 313.

Herpyllus Hentz 1832.

vasifer (Walckenaer) 1805. Parson spider. Comstock 1912 Spider Book, p. 318.

Rachodrassus Chamberlin 1922.

monroensis Kaston 1938. Bull. Brooklyn Ent. Soc., xxxiii: 173.

Sergiolus Simon 1891.

unimaculatus Emerton 1915. Trans. Connecticut Acad. Sci., xx : 142.

variegatus (Hentz) 1847. Comstock 1912 Spider Book, p. 319.

Zelotes Gistel 1848.

laccus (Barrows) 1919. *Prosthesima.* Ohio J. Sci., xix: 355.

subterraneus (C. L. Koch) 1839. *ater.* Comstock 1912 Spider Book, p. 316.

Family CLUBIONIDÆ.

Agrœca Westring 1861.

emertoni Kaston 1938. American Midl. Nat., xx: 568.

minuta Banks 1895. *Ibid.*, p. 568.

ornata Banks 1892. *Ibid.*, p. 564.

pratensis Emerton 1890. *Ibid.*, p. 566.

Castianeira Keyserling 1879.

aurata Emerton 1913. Bull. American Mus. Nat. Hist., xxxii: 258.

cingulata (C. L. Koch) 1842. Comstock 1912 Spider Book, p. 578.

descripta (Hentz) 1847. *Ibid.*, p. 578.

longipalpus (Hentz) 1847. *Ibid.*, p. 579.

Cheiracanthium C. L. Koch 1839.

inclusum (Hentz) 1847. Comstock 1912 Spider Book, p. 569.

Clubiona Latreille 1804.

abbotii L. Koch 1866. Comstock 1912 Spider Book, p. 566.

canadensis Emerton 1890. *Ibid.*, p. 567.

emertoni Petrunkevitch 1911. *pusilla.* Emerton 1890 Trans. Connecticut Acad. Sci., viii : 181.

littoralis Banks 1895. *latifrons.* Emerton 1913 Trans. Connecticut Acad. Sci., xviii : 220.

minutissima Petrunkevitch 1911. *minuta.* Emerton 1890 Trans. Connecticut Acad. Sci., viii: 181.

obesa Hentz 1847. Comstock 1912 Spider Book, p. 567.

pallens Hentz 1847. *Ibid.*, p. 567.

riparia L. Koch 1866. *Ibid.*, p. 567.

tibialis Emerton 1890. *Ibid.*, p. 569.

Marcellina Bryant 1931.

piscatoria (Hentz) 1847. Kaston 1938 Canadian Ent., lxx : 12.

Micaria Westring 1851.

aurata (Hentz) 1847. *longipes.* Comstock 1912 Spider Book, p. 580.

gentilis Banks 1896. Emerton 1909 Trans. Connecticut Acad. Sci., xiv : 215.

laticeps Emerton 1909. *Ibid.*, p. 214.

multimaculata Kaston 1938. Bull. Brooklyn Ent. Soc., xxxiii:182.

species 1.

Phrurolithus C. L. Koch 1839.

britcheri Petrunkevitch 1910. Gertsch 1935 American Mus. Nov., No. 805, p. 4.

formica Banks 1895. Emerton 1911 Trans. Connecticut Acad. Sci., xvi : 403.

pugnatus Emerton 1890. Trans. Connecticut Acad. Sci., viii: 188.

Phrurotimpus Chamberlin & Ivie 1935.

alarius (Hentz) 1847. *Phrurolithus.* Comstock 1912 Spider Book, p. 576 (in part).

borealis (Emerton) 1911. *Phrurolithus.* *Ibid.*, p. 576 (in part, under *alarius*).

Trachelas O. P.-Cambridge 1872.

tranquillus (Hentz) 1847. Comstock 1912 Spider Book, p. 581.

Family SALTICIDÆ (Jumping spiders).

Admestina Peckham 1889.

tibialis (C. L. Koch) 1848. Comstock 1912 Spider Book, p. 679.

Agassa Simon 1901.

cyanea (Hentz) 1846. Comstock 1912 Spider Book, p. 687.

Ballus C. L. Koch 1850.

youngii Peckham 1889. Comstock 1912 Spider Book, p. 671.

Dendryphantes C. L. Koch 1837.

capitatus (Hentz) 1845. Comstock 1912 Spider Book, p. 686.

virginis Chamberlin 1925. Kaston 1938 Canadian Ent., lxx : 16.

marginatus (Walckenaer) 1837. *militaris*. Comstock 1912 Spider Book, p. 685.

montanus Emerton 1891. Peckham 1909 Trans. Wisconsin Acad. Sci., xvi : 459.

Evarcha Simon 1902.

hoyi (Peckham) 1883. *Pellenes*. Comstock 1912 Spider Book, p. 691.

Fuentes Peckham 1894.

lineata (C. L. Koch) 1848. *Onondaga*. Comstock 1912 Spider Book, p. 696.

Habrocestum Simon 1876.

pulex (Hentz) 1846. Comstock 1912 Spider Book, p. 687.

Hentzia[4] Marx 1883.

mitrata (Hentz) 1846. *Wala*. Comstock 1912 Spider Book, p.680.

palmarum (Hentz) 1846. *Wala*. *Ibid.*, p. 680.

Hyctia Simon 1876.

bina (Hentz) 1846. Comstock 1912 Spider Book, p. 677.

pikei Peckham 1889. *Ibid.*, p. 677.

Icius Simon 1876.

formicarius Emerton 1891. Peckham 1909 Trans. Wisconsin Acad. Sci., xvi : 500.

[4] Concerning the use of this name see Kaston 1938 Entom. News, xlix: 258-259.

hartii Emerton 1891. Comstock 1912 Spider Book, p. 674.
similis Banks 1895. Peckham 1909 Trans. Wisconsin Acad. Sci., xvi : 498.

Mævia C. L. Koch 1850.
vittata (Hentz) 1846. Comstock 1912 Spider Book, p. 694.

Marpissa C. L. Koch 1846.
undata (De Geer) 1778. Comstock 1912 Spider Book, p. 678.

Myrmarachne MacLeay 1839.
ephippiata (Peckham) 1889. *albocinctus*. Comstock 1912 Spider Book, p. 673.

Neon Simon 1876.
nellii Peckham 1889. Comstock 1912 Spider Book, p. 675.

Peckhamia Simon 1901.
picata (Hentz) 1846. Comstock 1912 Spider Book, p. 699.
scorpionia (Hentz) 1846. *Ibid.*, p. 699.

Pellenes Simon 1876.
agilis (Banks) 1893. Comstock 1912 Spider Book, p. 689.
borealis (Banks) 1895. *Ibid.*, p. 690.
calcaratus Banks 1904. Peckham 1909 Trans. Wisconsin Acad. Sci., xvi : 546.
peregrinus (Peckham) 1883. Comstock 1912 Spider Book, p.692.
roseus (Hentz) 1846. Peckham 1909 Trans. Wisconsin Acad. Sci., xvi : 567.
viridipes (Hentz) 1846. *Ibid.*, p. 574.

Phidippus C. L. Koch 1846.
audax (Hentz) 1845. Comstock 1912 Spider Book, p. 681.
brunneus Emerton 1891. Peckham 1909 Trans. Wisconsin Acad. Sci., xvi : 409.
clarus Keyserling 1884. Comstock 1912 Spider Book, p. 683.
insignarius C. L. Koch 1846. Peckham 1909 Trans. Wisconsin Acad. Sci., xvi : 412.
insolens (Hentz) 1845. Comstock 1912 Spider Book, p. 683.
mccookii (Peckham) 1883. Peckham 1909 Trans. Wisconsin Acad. Sci., xvi : 396.

purpuratus Keyserling 1884. Comstock 1912 Spider Book, p. 683.
variegatus (Lucas) 1833. *Ibid.*, p. 682.
whitmanii Peckham 1889. *Ibid.*, p. 682.
species 1.

Phlegra Simon 1876.

fasciata (Hahn) 1831. *leopardus.* Comstock 1912 Spider Book, p. 688.

Salticus Latreille 1804.

scenicus (Clerck) 1757. Comstock 1912 Spider Book, p. 676.

Sitticus Simon 1901.

floridanus Gertsch & Mulaik 1936. American Mus. Nov., No. 851, p. 20.
palustris (Peckham) 1883. Comstock 1912 Spider Book, p. 676.

Synemosyna Hentz 1846.

formica Hentz 1846. Comstock 1912 Spider Book, p. 672.

Tutelina Simon 1901.

elegans (Hentz) 1846. *Icius.* Comstock 1912 Spider Book, p.673.

Zygoballus Peckham 1885.

bettini Peckham 1889. Comstock 1912 Spider Book, p. 697.
nervosus (Peckham) 1889. *Ibid.*, p. 698.

Family SEGESTRIIDÆ.

Ariadna Audouin 1827.

bicolor (Hentz) 1842. Comstock 1912 Spider Book, p. 300.

Family DYSDERIDÆ.

Dysdera Latreille 1804.

crocata C. L. Koch 1839. *interrita.* Comstock 1912 Spider Book, p. 299.

Family OONOPIDÆ.

Orchestina Simon 1882.

saltitans Banks 1894. Petrunkevitch 1920 J. New York Ent. Soc., xxviii : 157.

Family HAHNIIDÆ.

Hahnia C. L. Koch 1841.

cinerea Emerton 1890. Comstock 1912 Spider Book, p. 598.

Neoantistea Gertsch 1934.

agilis (Keyserling) 1887. Gertsch 1934 American Mus. Nov., No. 712, p. 19.

riparia (Keyserling) 1887. *Ibid.*, p. 28.

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14. Catalogue of the Flowering Plants and Ferns of Connecticut Growing Without Cultivation: by a Committee of the Connecticut Botanical Society consisting of Charles Burr Graves, A.B., M.D., Edwin Hubert Eames, M.D., Charles Humphrey Bissell, Luman Andrews, Edgar Burton Harger, Ph.B., and Charles Alfred Weatherby, A.M.; 569 pp., 23 cm., 1910. .90

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